



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 09:21 PM UTC

PDB ID : 6SUW / pdb_00006suw
Title : Crystal structure of Rhodospirillum rubrum Rru_A0973 E31A variant
Authors : Marles-Wright, J.; He, D.
Deposited on : 2019-09-17
Resolution : 2.66 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

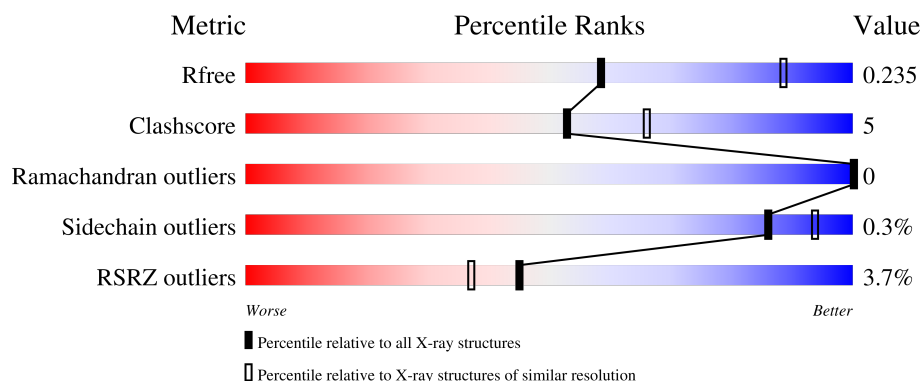
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.66 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1110 (2.66-2.66)
Clashscore	190562	1141 (2.66-2.66)
Ramachandran outliers	187476	1126 (2.66-2.66)
Sidechain outliers	187428	1126 (2.66-2.66)
RSRZ outliers	180081	1110 (2.66-2.66)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	116	 2% 72% 6% 22%
1	B	116	 2% 70% 7% 23%
1	C	116	 2% 70% 8% 22%
1	D	116	 2% 66% 11% 23%
1	E	116	 2% 66% 10% 22%

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Mol	Chain	Length	Quality of chain
1	F	116	
1	G	116	
1	H	116	
1	I	116	
1	J	116	
1	K	116	
1	L	116	
1	M	116	
1	N	116	
1	O	116	
1	P	116	
1	Q	116	
1	R	116	
1	S	116	
1	T	116	
1	U	116	
1	V	116	
1	W	116	
1	X	116	
1	Y	116	
1	Z	116	
1	a	116	
1	b	116	
1	c	116	
1	d	116	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 43363 atoms, of which 20981 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Uncharacterized protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	91	Total	C	H	N	O	S	0	0	0
			1450	462	708	132	146	2			
1	B	89	Total	C	H	N	O	S	0	0	0
			1430	456	698	130	144	2			
1	C	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			
1	D	89	Total	C	H	N	O	S	0	0	0
			1430	456	698	130	144	2			
1	E	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			
1	F	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			
1	G	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			
1	H	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			
1	I	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			
1	J	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			
1	K	91	Total	C	H	N	O	S	0	0	0
			1450	462	708	132	146	2			
1	L	91	Total	C	H	N	O	S	0	0	0
			1451	462	709	132	146	2			
1	M	90	Total	C	H	N	O	S	0	0	0
			1441	459	704	131	145	2			
1	N	89	Total	C	H	N	O	S	0	0	0
			1430	456	698	130	144	2			
1	O	89	Total	C	H	N	O	S	0	0	0
			1430	456	698	130	144	2			
1	P	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	Q	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			
1	R	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			
1	S	91	Total	C	H	N	O	S	0	0	0
			1450	462	708	132	146	2			
1	T	89	Total	C	H	N	O	S	0	0	0
			1430	456	698	130	144	2			
1	U	89	Total	C	H	N	O	S	0	0	0
			1429	456	698	130	143	2			
1	V	86	Total	C	H	N	O	S	0	0	0
			1388	443	679	125	139	2			
1	W	88	Total	C	H	N	O	S	0	0	0
			1420	453	694	129	142	2			
1	X	88	Total	C	H	N	O	S	0	0	0
			1420	453	694	129	142	2			
1	Y	88	Total	C	H	N	O	S	0	0	0
			1419	453	693	129	142	2			
1	Z	89	Total	C	H	N	O	S	0	0	0
			1430	456	698	130	144	2			
1	a	89	Total	C	H	N	O	S	0	0	0
			1430	456	698	130	144	2			
1	b	84	Total	C	H	N	O	S	0	0	0
			1361	434	664	125	136	2			
1	c	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			
1	d	90	Total	C	H	N	O	S	0	0	0
			1440	459	703	131	145	2			

There are 630 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	31	ALA	GLU	engineered mutation	UNP Q2RVS1
A	97	ALA	-	expression tag	UNP Q2RVS1
A	98	ASN	-	expression tag	UNP Q2RVS1
A	99	SER	-	expression tag	UNP Q2RVS1
A	100	SER	-	expression tag	UNP Q2RVS1
A	101	SER	-	expression tag	UNP Q2RVS1
A	102	VAL	-	expression tag	UNP Q2RVS1
A	103	ASP	-	expression tag	UNP Q2RVS1
A	104	LYS	-	expression tag	UNP Q2RVS1
A	105	LEU	-	expression tag	UNP Q2RVS1
A	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
A	107	ALA	-	expression tag	UNP Q2RVS1
A	108	ALA	-	expression tag	UNP Q2RVS1
A	109	LEU	-	expression tag	UNP Q2RVS1
A	110	GLU	-	expression tag	UNP Q2RVS1
A	111	HIS	-	expression tag	UNP Q2RVS1
A	112	HIS	-	expression tag	UNP Q2RVS1
A	113	HIS	-	expression tag	UNP Q2RVS1
A	114	HIS	-	expression tag	UNP Q2RVS1
A	115	HIS	-	expression tag	UNP Q2RVS1
A	116	HIS	-	expression tag	UNP Q2RVS1
B	31	ALA	GLU	engineered mutation	UNP Q2RVS1
B	97	ALA	-	expression tag	UNP Q2RVS1
B	98	ASN	-	expression tag	UNP Q2RVS1
B	99	SER	-	expression tag	UNP Q2RVS1
B	100	SER	-	expression tag	UNP Q2RVS1
B	101	SER	-	expression tag	UNP Q2RVS1
B	102	VAL	-	expression tag	UNP Q2RVS1
B	103	ASP	-	expression tag	UNP Q2RVS1
B	104	LYS	-	expression tag	UNP Q2RVS1
B	105	LEU	-	expression tag	UNP Q2RVS1
B	106	ALA	-	expression tag	UNP Q2RVS1
B	107	ALA	-	expression tag	UNP Q2RVS1
B	108	ALA	-	expression tag	UNP Q2RVS1
B	109	LEU	-	expression tag	UNP Q2RVS1
B	110	GLU	-	expression tag	UNP Q2RVS1
B	111	HIS	-	expression tag	UNP Q2RVS1
B	112	HIS	-	expression tag	UNP Q2RVS1
B	113	HIS	-	expression tag	UNP Q2RVS1
B	114	HIS	-	expression tag	UNP Q2RVS1
B	115	HIS	-	expression tag	UNP Q2RVS1
B	116	HIS	-	expression tag	UNP Q2RVS1
C	31	ALA	GLU	engineered mutation	UNP Q2RVS1
C	97	ALA	-	expression tag	UNP Q2RVS1
C	98	ASN	-	expression tag	UNP Q2RVS1
C	99	SER	-	expression tag	UNP Q2RVS1
C	100	SER	-	expression tag	UNP Q2RVS1
C	101	SER	-	expression tag	UNP Q2RVS1
C	102	VAL	-	expression tag	UNP Q2RVS1
C	103	ASP	-	expression tag	UNP Q2RVS1
C	104	LYS	-	expression tag	UNP Q2RVS1
C	105	LEU	-	expression tag	UNP Q2RVS1
C	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
C	107	ALA	-	expression tag	UNP Q2RVS1
C	108	ALA	-	expression tag	UNP Q2RVS1
C	109	LEU	-	expression tag	UNP Q2RVS1
C	110	GLU	-	expression tag	UNP Q2RVS1
C	111	HIS	-	expression tag	UNP Q2RVS1
C	112	HIS	-	expression tag	UNP Q2RVS1
C	113	HIS	-	expression tag	UNP Q2RVS1
C	114	HIS	-	expression tag	UNP Q2RVS1
C	115	HIS	-	expression tag	UNP Q2RVS1
C	116	HIS	-	expression tag	UNP Q2RVS1
D	31	ALA	GLU	engineered mutation	UNP Q2RVS1
D	97	ALA	-	expression tag	UNP Q2RVS1
D	98	ASN	-	expression tag	UNP Q2RVS1
D	99	SER	-	expression tag	UNP Q2RVS1
D	100	SER	-	expression tag	UNP Q2RVS1
D	101	SER	-	expression tag	UNP Q2RVS1
D	102	VAL	-	expression tag	UNP Q2RVS1
D	103	ASP	-	expression tag	UNP Q2RVS1
D	104	LYS	-	expression tag	UNP Q2RVS1
D	105	LEU	-	expression tag	UNP Q2RVS1
D	106	ALA	-	expression tag	UNP Q2RVS1
D	107	ALA	-	expression tag	UNP Q2RVS1
D	108	ALA	-	expression tag	UNP Q2RVS1
D	109	LEU	-	expression tag	UNP Q2RVS1
D	110	GLU	-	expression tag	UNP Q2RVS1
D	111	HIS	-	expression tag	UNP Q2RVS1
D	112	HIS	-	expression tag	UNP Q2RVS1
D	113	HIS	-	expression tag	UNP Q2RVS1
D	114	HIS	-	expression tag	UNP Q2RVS1
D	115	HIS	-	expression tag	UNP Q2RVS1
D	116	HIS	-	expression tag	UNP Q2RVS1
E	31	ALA	GLU	engineered mutation	UNP Q2RVS1
E	97	ALA	-	expression tag	UNP Q2RVS1
E	98	ASN	-	expression tag	UNP Q2RVS1
E	99	SER	-	expression tag	UNP Q2RVS1
E	100	SER	-	expression tag	UNP Q2RVS1
E	101	SER	-	expression tag	UNP Q2RVS1
E	102	VAL	-	expression tag	UNP Q2RVS1
E	103	ASP	-	expression tag	UNP Q2RVS1
E	104	LYS	-	expression tag	UNP Q2RVS1
E	105	LEU	-	expression tag	UNP Q2RVS1
E	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
E	107	ALA	-	expression tag	UNP Q2RVS1
E	108	ALA	-	expression tag	UNP Q2RVS1
E	109	LEU	-	expression tag	UNP Q2RVS1
E	110	GLU	-	expression tag	UNP Q2RVS1
E	111	HIS	-	expression tag	UNP Q2RVS1
E	112	HIS	-	expression tag	UNP Q2RVS1
E	113	HIS	-	expression tag	UNP Q2RVS1
E	114	HIS	-	expression tag	UNP Q2RVS1
E	115	HIS	-	expression tag	UNP Q2RVS1
E	116	HIS	-	expression tag	UNP Q2RVS1
F	31	ALA	GLU	engineered mutation	UNP Q2RVS1
F	97	ALA	-	expression tag	UNP Q2RVS1
F	98	ASN	-	expression tag	UNP Q2RVS1
F	99	SER	-	expression tag	UNP Q2RVS1
F	100	SER	-	expression tag	UNP Q2RVS1
F	101	SER	-	expression tag	UNP Q2RVS1
F	102	VAL	-	expression tag	UNP Q2RVS1
F	103	ASP	-	expression tag	UNP Q2RVS1
F	104	LYS	-	expression tag	UNP Q2RVS1
F	105	LEU	-	expression tag	UNP Q2RVS1
F	106	ALA	-	expression tag	UNP Q2RVS1
F	107	ALA	-	expression tag	UNP Q2RVS1
F	108	ALA	-	expression tag	UNP Q2RVS1
F	109	LEU	-	expression tag	UNP Q2RVS1
F	110	GLU	-	expression tag	UNP Q2RVS1
F	111	HIS	-	expression tag	UNP Q2RVS1
F	112	HIS	-	expression tag	UNP Q2RVS1
F	113	HIS	-	expression tag	UNP Q2RVS1
F	114	HIS	-	expression tag	UNP Q2RVS1
F	115	HIS	-	expression tag	UNP Q2RVS1
F	116	HIS	-	expression tag	UNP Q2RVS1
G	31	ALA	GLU	engineered mutation	UNP Q2RVS1
G	97	ALA	-	expression tag	UNP Q2RVS1
G	98	ASN	-	expression tag	UNP Q2RVS1
G	99	SER	-	expression tag	UNP Q2RVS1
G	100	SER	-	expression tag	UNP Q2RVS1
G	101	SER	-	expression tag	UNP Q2RVS1
G	102	VAL	-	expression tag	UNP Q2RVS1
G	103	ASP	-	expression tag	UNP Q2RVS1
G	104	LYS	-	expression tag	UNP Q2RVS1
G	105	LEU	-	expression tag	UNP Q2RVS1
G	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
G	107	ALA	-	expression tag	UNP Q2RVS1
G	108	ALA	-	expression tag	UNP Q2RVS1
G	109	LEU	-	expression tag	UNP Q2RVS1
G	110	GLU	-	expression tag	UNP Q2RVS1
G	111	HIS	-	expression tag	UNP Q2RVS1
G	112	HIS	-	expression tag	UNP Q2RVS1
G	113	HIS	-	expression tag	UNP Q2RVS1
G	114	HIS	-	expression tag	UNP Q2RVS1
G	115	HIS	-	expression tag	UNP Q2RVS1
G	116	HIS	-	expression tag	UNP Q2RVS1
H	31	ALA	GLU	engineered mutation	UNP Q2RVS1
H	97	ALA	-	expression tag	UNP Q2RVS1
H	98	ASN	-	expression tag	UNP Q2RVS1
H	99	SER	-	expression tag	UNP Q2RVS1
H	100	SER	-	expression tag	UNP Q2RVS1
H	101	SER	-	expression tag	UNP Q2RVS1
H	102	VAL	-	expression tag	UNP Q2RVS1
H	103	ASP	-	expression tag	UNP Q2RVS1
H	104	LYS	-	expression tag	UNP Q2RVS1
H	105	LEU	-	expression tag	UNP Q2RVS1
H	106	ALA	-	expression tag	UNP Q2RVS1
H	107	ALA	-	expression tag	UNP Q2RVS1
H	108	ALA	-	expression tag	UNP Q2RVS1
H	109	LEU	-	expression tag	UNP Q2RVS1
H	110	GLU	-	expression tag	UNP Q2RVS1
H	111	HIS	-	expression tag	UNP Q2RVS1
H	112	HIS	-	expression tag	UNP Q2RVS1
H	113	HIS	-	expression tag	UNP Q2RVS1
H	114	HIS	-	expression tag	UNP Q2RVS1
H	115	HIS	-	expression tag	UNP Q2RVS1
H	116	HIS	-	expression tag	UNP Q2RVS1
I	31	ALA	GLU	engineered mutation	UNP Q2RVS1
I	97	ALA	-	expression tag	UNP Q2RVS1
I	98	ASN	-	expression tag	UNP Q2RVS1
I	99	SER	-	expression tag	UNP Q2RVS1
I	100	SER	-	expression tag	UNP Q2RVS1
I	101	SER	-	expression tag	UNP Q2RVS1
I	102	VAL	-	expression tag	UNP Q2RVS1
I	103	ASP	-	expression tag	UNP Q2RVS1
I	104	LYS	-	expression tag	UNP Q2RVS1
I	105	LEU	-	expression tag	UNP Q2RVS1
I	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
I	107	ALA	-	expression tag	UNP Q2RVS1
I	108	ALA	-	expression tag	UNP Q2RVS1
I	109	LEU	-	expression tag	UNP Q2RVS1
I	110	GLU	-	expression tag	UNP Q2RVS1
I	111	HIS	-	expression tag	UNP Q2RVS1
I	112	HIS	-	expression tag	UNP Q2RVS1
I	113	HIS	-	expression tag	UNP Q2RVS1
I	114	HIS	-	expression tag	UNP Q2RVS1
I	115	HIS	-	expression tag	UNP Q2RVS1
I	116	HIS	-	expression tag	UNP Q2RVS1
J	31	ALA	GLU	engineered mutation	UNP Q2RVS1
J	97	ALA	-	expression tag	UNP Q2RVS1
J	98	ASN	-	expression tag	UNP Q2RVS1
J	99	SER	-	expression tag	UNP Q2RVS1
J	100	SER	-	expression tag	UNP Q2RVS1
J	101	SER	-	expression tag	UNP Q2RVS1
J	102	VAL	-	expression tag	UNP Q2RVS1
J	103	ASP	-	expression tag	UNP Q2RVS1
J	104	LYS	-	expression tag	UNP Q2RVS1
J	105	LEU	-	expression tag	UNP Q2RVS1
J	106	ALA	-	expression tag	UNP Q2RVS1
J	107	ALA	-	expression tag	UNP Q2RVS1
J	108	ALA	-	expression tag	UNP Q2RVS1
J	109	LEU	-	expression tag	UNP Q2RVS1
J	110	GLU	-	expression tag	UNP Q2RVS1
J	111	HIS	-	expression tag	UNP Q2RVS1
J	112	HIS	-	expression tag	UNP Q2RVS1
J	113	HIS	-	expression tag	UNP Q2RVS1
J	114	HIS	-	expression tag	UNP Q2RVS1
J	115	HIS	-	expression tag	UNP Q2RVS1
J	116	HIS	-	expression tag	UNP Q2RVS1
K	31	ALA	GLU	engineered mutation	UNP Q2RVS1
K	97	ALA	-	expression tag	UNP Q2RVS1
K	98	ASN	-	expression tag	UNP Q2RVS1
K	99	SER	-	expression tag	UNP Q2RVS1
K	100	SER	-	expression tag	UNP Q2RVS1
K	101	SER	-	expression tag	UNP Q2RVS1
K	102	VAL	-	expression tag	UNP Q2RVS1
K	103	ASP	-	expression tag	UNP Q2RVS1
K	104	LYS	-	expression tag	UNP Q2RVS1
K	105	LEU	-	expression tag	UNP Q2RVS1
K	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
K	107	ALA	-	expression tag	UNP Q2RVS1
K	108	ALA	-	expression tag	UNP Q2RVS1
K	109	LEU	-	expression tag	UNP Q2RVS1
K	110	GLU	-	expression tag	UNP Q2RVS1
K	111	HIS	-	expression tag	UNP Q2RVS1
K	112	HIS	-	expression tag	UNP Q2RVS1
K	113	HIS	-	expression tag	UNP Q2RVS1
K	114	HIS	-	expression tag	UNP Q2RVS1
K	115	HIS	-	expression tag	UNP Q2RVS1
K	116	HIS	-	expression tag	UNP Q2RVS1
L	31	ALA	GLU	engineered mutation	UNP Q2RVS1
L	97	ALA	-	expression tag	UNP Q2RVS1
L	98	ASN	-	expression tag	UNP Q2RVS1
L	99	SER	-	expression tag	UNP Q2RVS1
L	100	SER	-	expression tag	UNP Q2RVS1
L	101	SER	-	expression tag	UNP Q2RVS1
L	102	VAL	-	expression tag	UNP Q2RVS1
L	103	ASP	-	expression tag	UNP Q2RVS1
L	104	LYS	-	expression tag	UNP Q2RVS1
L	105	LEU	-	expression tag	UNP Q2RVS1
L	106	ALA	-	expression tag	UNP Q2RVS1
L	107	ALA	-	expression tag	UNP Q2RVS1
L	108	ALA	-	expression tag	UNP Q2RVS1
L	109	LEU	-	expression tag	UNP Q2RVS1
L	110	GLU	-	expression tag	UNP Q2RVS1
L	111	HIS	-	expression tag	UNP Q2RVS1
L	112	HIS	-	expression tag	UNP Q2RVS1
L	113	HIS	-	expression tag	UNP Q2RVS1
L	114	HIS	-	expression tag	UNP Q2RVS1
L	115	HIS	-	expression tag	UNP Q2RVS1
L	116	HIS	-	expression tag	UNP Q2RVS1
M	31	ALA	GLU	engineered mutation	UNP Q2RVS1
M	97	ALA	-	expression tag	UNP Q2RVS1
M	98	ASN	-	expression tag	UNP Q2RVS1
M	99	SER	-	expression tag	UNP Q2RVS1
M	100	SER	-	expression tag	UNP Q2RVS1
M	101	SER	-	expression tag	UNP Q2RVS1
M	102	VAL	-	expression tag	UNP Q2RVS1
M	103	ASP	-	expression tag	UNP Q2RVS1
M	104	LYS	-	expression tag	UNP Q2RVS1
M	105	LEU	-	expression tag	UNP Q2RVS1
M	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
M	107	ALA	-	expression tag	UNP Q2RVS1
M	108	ALA	-	expression tag	UNP Q2RVS1
M	109	LEU	-	expression tag	UNP Q2RVS1
M	110	GLU	-	expression tag	UNP Q2RVS1
M	111	HIS	-	expression tag	UNP Q2RVS1
M	112	HIS	-	expression tag	UNP Q2RVS1
M	113	HIS	-	expression tag	UNP Q2RVS1
M	114	HIS	-	expression tag	UNP Q2RVS1
M	115	HIS	-	expression tag	UNP Q2RVS1
M	116	HIS	-	expression tag	UNP Q2RVS1
N	31	ALA	GLU	engineered mutation	UNP Q2RVS1
N	97	ALA	-	expression tag	UNP Q2RVS1
N	98	ASN	-	expression tag	UNP Q2RVS1
N	99	SER	-	expression tag	UNP Q2RVS1
N	100	SER	-	expression tag	UNP Q2RVS1
N	101	SER	-	expression tag	UNP Q2RVS1
N	102	VAL	-	expression tag	UNP Q2RVS1
N	103	ASP	-	expression tag	UNP Q2RVS1
N	104	LYS	-	expression tag	UNP Q2RVS1
N	105	LEU	-	expression tag	UNP Q2RVS1
N	106	ALA	-	expression tag	UNP Q2RVS1
N	107	ALA	-	expression tag	UNP Q2RVS1
N	108	ALA	-	expression tag	UNP Q2RVS1
N	109	LEU	-	expression tag	UNP Q2RVS1
N	110	GLU	-	expression tag	UNP Q2RVS1
N	111	HIS	-	expression tag	UNP Q2RVS1
N	112	HIS	-	expression tag	UNP Q2RVS1
N	113	HIS	-	expression tag	UNP Q2RVS1
N	114	HIS	-	expression tag	UNP Q2RVS1
N	115	HIS	-	expression tag	UNP Q2RVS1
N	116	HIS	-	expression tag	UNP Q2RVS1
O	31	ALA	GLU	engineered mutation	UNP Q2RVS1
O	97	ALA	-	expression tag	UNP Q2RVS1
O	98	ASN	-	expression tag	UNP Q2RVS1
O	99	SER	-	expression tag	UNP Q2RVS1
O	100	SER	-	expression tag	UNP Q2RVS1
O	101	SER	-	expression tag	UNP Q2RVS1
O	102	VAL	-	expression tag	UNP Q2RVS1
O	103	ASP	-	expression tag	UNP Q2RVS1
O	104	LYS	-	expression tag	UNP Q2RVS1
O	105	LEU	-	expression tag	UNP Q2RVS1
O	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
O	107	ALA	-	expression tag	UNP Q2RVS1
O	108	ALA	-	expression tag	UNP Q2RVS1
O	109	LEU	-	expression tag	UNP Q2RVS1
O	110	GLU	-	expression tag	UNP Q2RVS1
O	111	HIS	-	expression tag	UNP Q2RVS1
O	112	HIS	-	expression tag	UNP Q2RVS1
O	113	HIS	-	expression tag	UNP Q2RVS1
O	114	HIS	-	expression tag	UNP Q2RVS1
O	115	HIS	-	expression tag	UNP Q2RVS1
O	116	HIS	-	expression tag	UNP Q2RVS1
P	31	ALA	GLU	engineered mutation	UNP Q2RVS1
P	97	ALA	-	expression tag	UNP Q2RVS1
P	98	ASN	-	expression tag	UNP Q2RVS1
P	99	SER	-	expression tag	UNP Q2RVS1
P	100	SER	-	expression tag	UNP Q2RVS1
P	101	SER	-	expression tag	UNP Q2RVS1
P	102	VAL	-	expression tag	UNP Q2RVS1
P	103	ASP	-	expression tag	UNP Q2RVS1
P	104	LYS	-	expression tag	UNP Q2RVS1
P	105	LEU	-	expression tag	UNP Q2RVS1
P	106	ALA	-	expression tag	UNP Q2RVS1
P	107	ALA	-	expression tag	UNP Q2RVS1
P	108	ALA	-	expression tag	UNP Q2RVS1
P	109	LEU	-	expression tag	UNP Q2RVS1
P	110	GLU	-	expression tag	UNP Q2RVS1
P	111	HIS	-	expression tag	UNP Q2RVS1
P	112	HIS	-	expression tag	UNP Q2RVS1
P	113	HIS	-	expression tag	UNP Q2RVS1
P	114	HIS	-	expression tag	UNP Q2RVS1
P	115	HIS	-	expression tag	UNP Q2RVS1
P	116	HIS	-	expression tag	UNP Q2RVS1
Q	31	ALA	GLU	engineered mutation	UNP Q2RVS1
Q	97	ALA	-	expression tag	UNP Q2RVS1
Q	98	ASN	-	expression tag	UNP Q2RVS1
Q	99	SER	-	expression tag	UNP Q2RVS1
Q	100	SER	-	expression tag	UNP Q2RVS1
Q	101	SER	-	expression tag	UNP Q2RVS1
Q	102	VAL	-	expression tag	UNP Q2RVS1
Q	103	ASP	-	expression tag	UNP Q2RVS1
Q	104	LYS	-	expression tag	UNP Q2RVS1
Q	105	LEU	-	expression tag	UNP Q2RVS1
Q	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
Q	107	ALA	-	expression tag	UNP Q2RVS1
Q	108	ALA	-	expression tag	UNP Q2RVS1
Q	109	LEU	-	expression tag	UNP Q2RVS1
Q	110	GLU	-	expression tag	UNP Q2RVS1
Q	111	HIS	-	expression tag	UNP Q2RVS1
Q	112	HIS	-	expression tag	UNP Q2RVS1
Q	113	HIS	-	expression tag	UNP Q2RVS1
Q	114	HIS	-	expression tag	UNP Q2RVS1
Q	115	HIS	-	expression tag	UNP Q2RVS1
Q	116	HIS	-	expression tag	UNP Q2RVS1
R	31	ALA	GLU	engineered mutation	UNP Q2RVS1
R	97	ALA	-	expression tag	UNP Q2RVS1
R	98	ASN	-	expression tag	UNP Q2RVS1
R	99	SER	-	expression tag	UNP Q2RVS1
R	100	SER	-	expression tag	UNP Q2RVS1
R	101	SER	-	expression tag	UNP Q2RVS1
R	102	VAL	-	expression tag	UNP Q2RVS1
R	103	ASP	-	expression tag	UNP Q2RVS1
R	104	LYS	-	expression tag	UNP Q2RVS1
R	105	LEU	-	expression tag	UNP Q2RVS1
R	106	ALA	-	expression tag	UNP Q2RVS1
R	107	ALA	-	expression tag	UNP Q2RVS1
R	108	ALA	-	expression tag	UNP Q2RVS1
R	109	LEU	-	expression tag	UNP Q2RVS1
R	110	GLU	-	expression tag	UNP Q2RVS1
R	111	HIS	-	expression tag	UNP Q2RVS1
R	112	HIS	-	expression tag	UNP Q2RVS1
R	113	HIS	-	expression tag	UNP Q2RVS1
R	114	HIS	-	expression tag	UNP Q2RVS1
R	115	HIS	-	expression tag	UNP Q2RVS1
R	116	HIS	-	expression tag	UNP Q2RVS1
S	31	ALA	GLU	engineered mutation	UNP Q2RVS1
S	97	ALA	-	expression tag	UNP Q2RVS1
S	98	ASN	-	expression tag	UNP Q2RVS1
S	99	SER	-	expression tag	UNP Q2RVS1
S	100	SER	-	expression tag	UNP Q2RVS1
S	101	SER	-	expression tag	UNP Q2RVS1
S	102	VAL	-	expression tag	UNP Q2RVS1
S	103	ASP	-	expression tag	UNP Q2RVS1
S	104	LYS	-	expression tag	UNP Q2RVS1
S	105	LEU	-	expression tag	UNP Q2RVS1
S	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
S	107	ALA	-	expression tag	UNP Q2RVS1
S	108	ALA	-	expression tag	UNP Q2RVS1
S	109	LEU	-	expression tag	UNP Q2RVS1
S	110	GLU	-	expression tag	UNP Q2RVS1
S	111	HIS	-	expression tag	UNP Q2RVS1
S	112	HIS	-	expression tag	UNP Q2RVS1
S	113	HIS	-	expression tag	UNP Q2RVS1
S	114	HIS	-	expression tag	UNP Q2RVS1
S	115	HIS	-	expression tag	UNP Q2RVS1
S	116	HIS	-	expression tag	UNP Q2RVS1
T	31	ALA	GLU	engineered mutation	UNP Q2RVS1
T	97	ALA	-	expression tag	UNP Q2RVS1
T	98	ASN	-	expression tag	UNP Q2RVS1
T	99	SER	-	expression tag	UNP Q2RVS1
T	100	SER	-	expression tag	UNP Q2RVS1
T	101	SER	-	expression tag	UNP Q2RVS1
T	102	VAL	-	expression tag	UNP Q2RVS1
T	103	ASP	-	expression tag	UNP Q2RVS1
T	104	LYS	-	expression tag	UNP Q2RVS1
T	105	LEU	-	expression tag	UNP Q2RVS1
T	106	ALA	-	expression tag	UNP Q2RVS1
T	107	ALA	-	expression tag	UNP Q2RVS1
T	108	ALA	-	expression tag	UNP Q2RVS1
T	109	LEU	-	expression tag	UNP Q2RVS1
T	110	GLU	-	expression tag	UNP Q2RVS1
T	111	HIS	-	expression tag	UNP Q2RVS1
T	112	HIS	-	expression tag	UNP Q2RVS1
T	113	HIS	-	expression tag	UNP Q2RVS1
T	114	HIS	-	expression tag	UNP Q2RVS1
T	115	HIS	-	expression tag	UNP Q2RVS1
T	116	HIS	-	expression tag	UNP Q2RVS1
U	31	ALA	GLU	engineered mutation	UNP Q2RVS1
U	97	ALA	-	expression tag	UNP Q2RVS1
U	98	ASN	-	expression tag	UNP Q2RVS1
U	99	SER	-	expression tag	UNP Q2RVS1
U	100	SER	-	expression tag	UNP Q2RVS1
U	101	SER	-	expression tag	UNP Q2RVS1
U	102	VAL	-	expression tag	UNP Q2RVS1
U	103	ASP	-	expression tag	UNP Q2RVS1
U	104	LYS	-	expression tag	UNP Q2RVS1
U	105	LEU	-	expression tag	UNP Q2RVS1
U	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
U	107	ALA	-	expression tag	UNP Q2RVS1
U	108	ALA	-	expression tag	UNP Q2RVS1
U	109	LEU	-	expression tag	UNP Q2RVS1
U	110	GLU	-	expression tag	UNP Q2RVS1
U	111	HIS	-	expression tag	UNP Q2RVS1
U	112	HIS	-	expression tag	UNP Q2RVS1
U	113	HIS	-	expression tag	UNP Q2RVS1
U	114	HIS	-	expression tag	UNP Q2RVS1
U	115	HIS	-	expression tag	UNP Q2RVS1
U	116	HIS	-	expression tag	UNP Q2RVS1
V	31	ALA	GLU	engineered mutation	UNP Q2RVS1
V	97	ALA	-	expression tag	UNP Q2RVS1
V	98	ASN	-	expression tag	UNP Q2RVS1
V	99	SER	-	expression tag	UNP Q2RVS1
V	100	SER	-	expression tag	UNP Q2RVS1
V	101	SER	-	expression tag	UNP Q2RVS1
V	102	VAL	-	expression tag	UNP Q2RVS1
V	103	ASP	-	expression tag	UNP Q2RVS1
V	104	LYS	-	expression tag	UNP Q2RVS1
V	105	LEU	-	expression tag	UNP Q2RVS1
V	106	ALA	-	expression tag	UNP Q2RVS1
V	107	ALA	-	expression tag	UNP Q2RVS1
V	108	ALA	-	expression tag	UNP Q2RVS1
V	109	LEU	-	expression tag	UNP Q2RVS1
V	110	GLU	-	expression tag	UNP Q2RVS1
V	111	HIS	-	expression tag	UNP Q2RVS1
V	112	HIS	-	expression tag	UNP Q2RVS1
V	113	HIS	-	expression tag	UNP Q2RVS1
V	114	HIS	-	expression tag	UNP Q2RVS1
V	115	HIS	-	expression tag	UNP Q2RVS1
V	116	HIS	-	expression tag	UNP Q2RVS1
W	31	ALA	GLU	engineered mutation	UNP Q2RVS1
W	97	ALA	-	expression tag	UNP Q2RVS1
W	98	ASN	-	expression tag	UNP Q2RVS1
W	99	SER	-	expression tag	UNP Q2RVS1
W	100	SER	-	expression tag	UNP Q2RVS1
W	101	SER	-	expression tag	UNP Q2RVS1
W	102	VAL	-	expression tag	UNP Q2RVS1
W	103	ASP	-	expression tag	UNP Q2RVS1
W	104	LYS	-	expression tag	UNP Q2RVS1
W	105	LEU	-	expression tag	UNP Q2RVS1
W	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
W	107	ALA	-	expression tag	UNP Q2RVS1
W	108	ALA	-	expression tag	UNP Q2RVS1
W	109	LEU	-	expression tag	UNP Q2RVS1
W	110	GLU	-	expression tag	UNP Q2RVS1
W	111	HIS	-	expression tag	UNP Q2RVS1
W	112	HIS	-	expression tag	UNP Q2RVS1
W	113	HIS	-	expression tag	UNP Q2RVS1
W	114	HIS	-	expression tag	UNP Q2RVS1
W	115	HIS	-	expression tag	UNP Q2RVS1
W	116	HIS	-	expression tag	UNP Q2RVS1
X	31	ALA	GLU	engineered mutation	UNP Q2RVS1
X	97	ALA	-	expression tag	UNP Q2RVS1
X	98	ASN	-	expression tag	UNP Q2RVS1
X	99	SER	-	expression tag	UNP Q2RVS1
X	100	SER	-	expression tag	UNP Q2RVS1
X	101	SER	-	expression tag	UNP Q2RVS1
X	102	VAL	-	expression tag	UNP Q2RVS1
X	103	ASP	-	expression tag	UNP Q2RVS1
X	104	LYS	-	expression tag	UNP Q2RVS1
X	105	LEU	-	expression tag	UNP Q2RVS1
X	106	ALA	-	expression tag	UNP Q2RVS1
X	107	ALA	-	expression tag	UNP Q2RVS1
X	108	ALA	-	expression tag	UNP Q2RVS1
X	109	LEU	-	expression tag	UNP Q2RVS1
X	110	GLU	-	expression tag	UNP Q2RVS1
X	111	HIS	-	expression tag	UNP Q2RVS1
X	112	HIS	-	expression tag	UNP Q2RVS1
X	113	HIS	-	expression tag	UNP Q2RVS1
X	114	HIS	-	expression tag	UNP Q2RVS1
X	115	HIS	-	expression tag	UNP Q2RVS1
X	116	HIS	-	expression tag	UNP Q2RVS1
Y	31	ALA	GLU	engineered mutation	UNP Q2RVS1
Y	97	ALA	-	expression tag	UNP Q2RVS1
Y	98	ASN	-	expression tag	UNP Q2RVS1
Y	99	SER	-	expression tag	UNP Q2RVS1
Y	100	SER	-	expression tag	UNP Q2RVS1
Y	101	SER	-	expression tag	UNP Q2RVS1
Y	102	VAL	-	expression tag	UNP Q2RVS1
Y	103	ASP	-	expression tag	UNP Q2RVS1
Y	104	LYS	-	expression tag	UNP Q2RVS1
Y	105	LEU	-	expression tag	UNP Q2RVS1
Y	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
Y	107	ALA	-	expression tag	UNP Q2RVS1
Y	108	ALA	-	expression tag	UNP Q2RVS1
Y	109	LEU	-	expression tag	UNP Q2RVS1
Y	110	GLU	-	expression tag	UNP Q2RVS1
Y	111	HIS	-	expression tag	UNP Q2RVS1
Y	112	HIS	-	expression tag	UNP Q2RVS1
Y	113	HIS	-	expression tag	UNP Q2RVS1
Y	114	HIS	-	expression tag	UNP Q2RVS1
Y	115	HIS	-	expression tag	UNP Q2RVS1
Y	116	HIS	-	expression tag	UNP Q2RVS1
Z	31	ALA	GLU	engineered mutation	UNP Q2RVS1
Z	97	ALA	-	expression tag	UNP Q2RVS1
Z	98	ASN	-	expression tag	UNP Q2RVS1
Z	99	SER	-	expression tag	UNP Q2RVS1
Z	100	SER	-	expression tag	UNP Q2RVS1
Z	101	SER	-	expression tag	UNP Q2RVS1
Z	102	VAL	-	expression tag	UNP Q2RVS1
Z	103	ASP	-	expression tag	UNP Q2RVS1
Z	104	LYS	-	expression tag	UNP Q2RVS1
Z	105	LEU	-	expression tag	UNP Q2RVS1
Z	106	ALA	-	expression tag	UNP Q2RVS1
Z	107	ALA	-	expression tag	UNP Q2RVS1
Z	108	ALA	-	expression tag	UNP Q2RVS1
Z	109	LEU	-	expression tag	UNP Q2RVS1
Z	110	GLU	-	expression tag	UNP Q2RVS1
Z	111	HIS	-	expression tag	UNP Q2RVS1
Z	112	HIS	-	expression tag	UNP Q2RVS1
Z	113	HIS	-	expression tag	UNP Q2RVS1
Z	114	HIS	-	expression tag	UNP Q2RVS1
Z	115	HIS	-	expression tag	UNP Q2RVS1
Z	116	HIS	-	expression tag	UNP Q2RVS1
a	31	ALA	GLU	engineered mutation	UNP Q2RVS1
a	97	ALA	-	expression tag	UNP Q2RVS1
a	98	ASN	-	expression tag	UNP Q2RVS1
a	99	SER	-	expression tag	UNP Q2RVS1
a	100	SER	-	expression tag	UNP Q2RVS1
a	101	SER	-	expression tag	UNP Q2RVS1
a	102	VAL	-	expression tag	UNP Q2RVS1
a	103	ASP	-	expression tag	UNP Q2RVS1
a	104	LYS	-	expression tag	UNP Q2RVS1
a	105	LEU	-	expression tag	UNP Q2RVS1
a	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
a	107	ALA	-	expression tag	UNP Q2RVS1
a	108	ALA	-	expression tag	UNP Q2RVS1
a	109	LEU	-	expression tag	UNP Q2RVS1
a	110	GLU	-	expression tag	UNP Q2RVS1
a	111	HIS	-	expression tag	UNP Q2RVS1
a	112	HIS	-	expression tag	UNP Q2RVS1
a	113	HIS	-	expression tag	UNP Q2RVS1
a	114	HIS	-	expression tag	UNP Q2RVS1
a	115	HIS	-	expression tag	UNP Q2RVS1
a	116	HIS	-	expression tag	UNP Q2RVS1
b	31	ALA	GLU	engineered mutation	UNP Q2RVS1
b	97	ALA	-	expression tag	UNP Q2RVS1
b	98	ASN	-	expression tag	UNP Q2RVS1
b	99	SER	-	expression tag	UNP Q2RVS1
b	100	SER	-	expression tag	UNP Q2RVS1
b	101	SER	-	expression tag	UNP Q2RVS1
b	102	VAL	-	expression tag	UNP Q2RVS1
b	103	ASP	-	expression tag	UNP Q2RVS1
b	104	LYS	-	expression tag	UNP Q2RVS1
b	105	LEU	-	expression tag	UNP Q2RVS1
b	106	ALA	-	expression tag	UNP Q2RVS1
b	107	ALA	-	expression tag	UNP Q2RVS1
b	108	ALA	-	expression tag	UNP Q2RVS1
b	109	LEU	-	expression tag	UNP Q2RVS1
b	110	GLU	-	expression tag	UNP Q2RVS1
b	111	HIS	-	expression tag	UNP Q2RVS1
b	112	HIS	-	expression tag	UNP Q2RVS1
b	113	HIS	-	expression tag	UNP Q2RVS1
b	114	HIS	-	expression tag	UNP Q2RVS1
b	115	HIS	-	expression tag	UNP Q2RVS1
b	116	HIS	-	expression tag	UNP Q2RVS1
c	31	ALA	GLU	engineered mutation	UNP Q2RVS1
c	97	ALA	-	expression tag	UNP Q2RVS1
c	98	ASN	-	expression tag	UNP Q2RVS1
c	99	SER	-	expression tag	UNP Q2RVS1
c	100	SER	-	expression tag	UNP Q2RVS1
c	101	SER	-	expression tag	UNP Q2RVS1
c	102	VAL	-	expression tag	UNP Q2RVS1
c	103	ASP	-	expression tag	UNP Q2RVS1
c	104	LYS	-	expression tag	UNP Q2RVS1
c	105	LEU	-	expression tag	UNP Q2RVS1
c	106	ALA	-	expression tag	UNP Q2RVS1

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Chain	Residue	Modelled	Actual	Comment	Reference
c	107	ALA	-	expression tag	UNP Q2RVS1
c	108	ALA	-	expression tag	UNP Q2RVS1
c	109	LEU	-	expression tag	UNP Q2RVS1
c	110	GLU	-	expression tag	UNP Q2RVS1
c	111	HIS	-	expression tag	UNP Q2RVS1
c	112	HIS	-	expression tag	UNP Q2RVS1
c	113	HIS	-	expression tag	UNP Q2RVS1
c	114	HIS	-	expression tag	UNP Q2RVS1
c	115	HIS	-	expression tag	UNP Q2RVS1
c	116	HIS	-	expression tag	UNP Q2RVS1
d	31	ALA	GLU	engineered mutation	UNP Q2RVS1
d	97	ALA	-	expression tag	UNP Q2RVS1
d	98	ASN	-	expression tag	UNP Q2RVS1
d	99	SER	-	expression tag	UNP Q2RVS1
d	100	SER	-	expression tag	UNP Q2RVS1
d	101	SER	-	expression tag	UNP Q2RVS1
d	102	VAL	-	expression tag	UNP Q2RVS1
d	103	ASP	-	expression tag	UNP Q2RVS1
d	104	LYS	-	expression tag	UNP Q2RVS1
d	105	LEU	-	expression tag	UNP Q2RVS1
d	106	ALA	-	expression tag	UNP Q2RVS1
d	107	ALA	-	expression tag	UNP Q2RVS1
d	108	ALA	-	expression tag	UNP Q2RVS1
d	109	LEU	-	expression tag	UNP Q2RVS1
d	110	GLU	-	expression tag	UNP Q2RVS1
d	111	HIS	-	expression tag	UNP Q2RVS1
d	112	HIS	-	expression tag	UNP Q2RVS1
d	113	HIS	-	expression tag	UNP Q2RVS1
d	114	HIS	-	expression tag	UNP Q2RVS1
d	115	HIS	-	expression tag	UNP Q2RVS1
d	116	HIS	-	expression tag	UNP Q2RVS1

- Molecule 2 is FE (III) ION (CCD ID: FE) (formula: Fe) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Fe 1 1	0	0
2	B	1	Total Fe 1 1	0	0
2	C	1	Total Fe 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	D	1	Total 1	Fe 1	0	0
2	E	1	Total 1	Fe 1	0	0
2	F	1	Total 1	Fe 1	0	0
2	G	1	Total 1	Fe 1	0	0
2	H	1	Total 1	Fe 1	0	0
2	I	1	Total 1	Fe 1	0	0
2	J	1	Total 1	Fe 1	0	0
2	K	1	Total 1	Fe 1	0	0
2	L	1	Total 1	Fe 1	0	0
2	M	1	Total 1	Fe 1	0	0
2	N	1	Total 1	Fe 1	0	0
2	O	1	Total 1	Fe 1	0	0
2	P	1	Total 1	Fe 1	0	0
2	Q	1	Total 1	Fe 1	0	0
2	R	1	Total 1	Fe 1	0	0
2	S	1	Total 1	Fe 1	0	0
2	T	1	Total 1	Fe 1	0	0
2	U	1	Total 1	Fe 1	0	0
2	V	1	Total 1	Fe 1	0	0
2	W	1	Total 1	Fe 1	0	0
2	X	1	Total 1	Fe 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	Y	1	Total 1	Fe 1	0	0
2	Z	1	Total 1	Fe 1	0	0
2	a	1	Total 1	Fe 1	0	0
2	b	1	Total 1	Fe 1	0	0
2	c	1	Total 1	Fe 1	0	0
2	d	1	Total 1	Fe 1	0	0

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	2	Total 2	Ca 2	0	0
3	B	3	Total 3	Ca 3	0	0
3	D	1	Total 1	Ca 1	0	0
3	E	3	Total 3	Ca 3	0	0
3	F	2	Total 2	Ca 2	0	0
3	G	1	Total 1	Ca 1	0	0
3	H	1	Total 1	Ca 1	0	0
3	I	2	Total 2	Ca 2	0	0
3	J	1	Total 1	Ca 1	0	0
3	K	2	Total 2	Ca 2	0	0
3	L	1	Total 1	Ca 1	0	0
3	M	1	Total 1	Ca 1	0	0
3	O	1	Total 1	Ca 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	P	1	Total Ca 1 1	0	0
3	Q	2	Total Ca 2 2	0	0
3	R	1	Total Ca 1 1	0	0
3	T	1	Total Ca 1 1	0	0
3	U	1	Total Ca 1 1	0	0
3	V	1	Total Ca 1 1	0	0
3	Y	1	Total Ca 1 1	0	0
3	Z	1	Total Ca 1 1	0	0
3	a	2	Total Ca 2 2	0	0
3	b	1	Total Ca 1 1	0	0
3	c	1	Total Ca 1 1	0	0
3	d	1	Total Ca 1 1	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	22	Total O 22 22	0	0
4	B	11	Total O 11 11	0	0
4	C	14	Total O 14 14	0	0
4	D	18	Total O 18 18	0	0
4	E	13	Total O 13 13	0	0
4	F	14	Total O 14 14	0	0
4	G	17	Total O 17 17	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	H	9	Total O 9 9	0	0
4	I	21	Total O 21 21	0	0
4	J	23	Total O 23 23	0	0
4	K	12	Total O 12 12	0	0
4	L	12	Total O 12 12	0	0
4	M	5	Total O 5 5	0	0
4	N	14	Total O 14 14	0	0
4	O	7	Total O 7 7	0	0
4	P	2	Total O 2 2	0	0
4	Q	2	Total O 2 2	0	0
4	R	8	Total O 8 8	0	0
4	S	17	Total O 17 17	0	0
4	T	21	Total O 21 21	0	0
4	U	6	Total O 6 6	0	0
4	V	4	Total O 4 4	0	0
4	W	5	Total O 5 5	0	0
4	X	3	Total O 3 3	0	0
4	Y	6	Total O 6 6	0	0
4	Z	10	Total O 10 10	0	0
4	a	9	Total O 9 9	0	0
4	b	12	Total O 12 12	0	0

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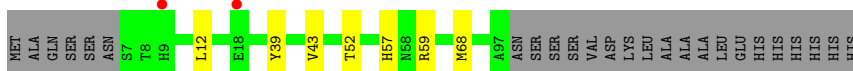
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	c	9	Total	O	0	0
			9	9		
4	d	3	Total	O	0	0
			3	3		

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

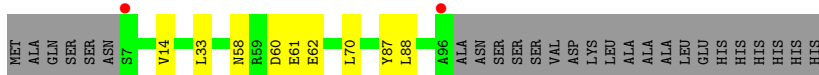
- Molecule 1: Uncharacterized protein



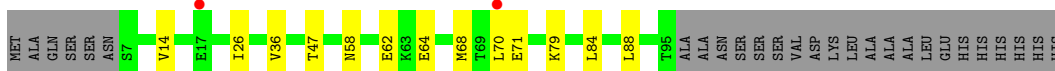
- Molecule 1: Uncharacterized protein



- Molecule 1: Uncharacterized protein



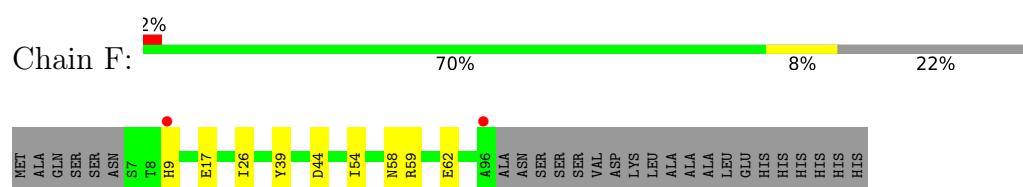
- Molecule 1: Uncharacterized protein



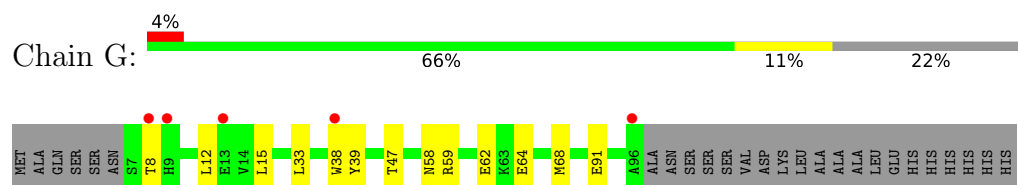
- Molecule 1: Uncharacterized protein



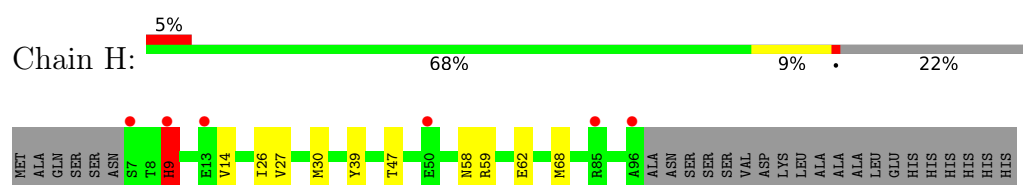
- Molecule 1: Uncharacterized protein



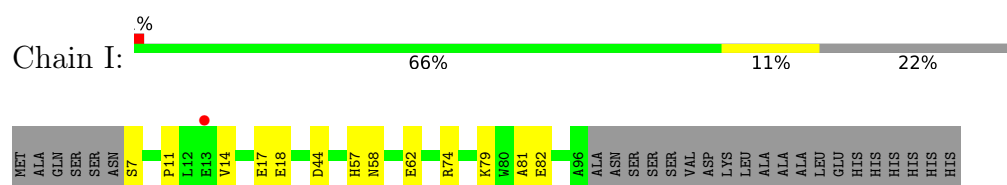
- Molecule 1: Uncharacterized protein



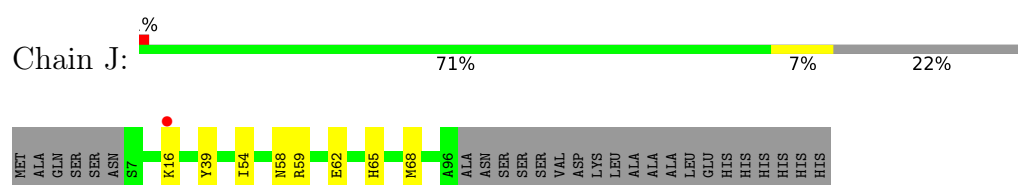
- Molecule 1: Uncharacterized protein



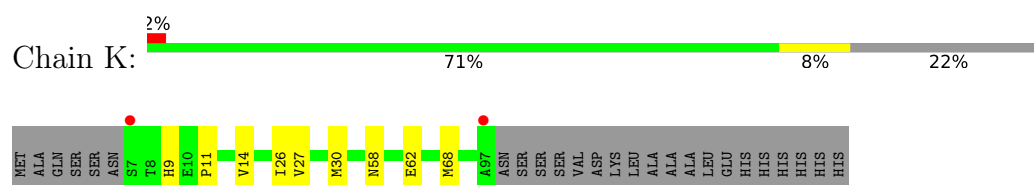
- Molecule 1: Uncharacterized protein



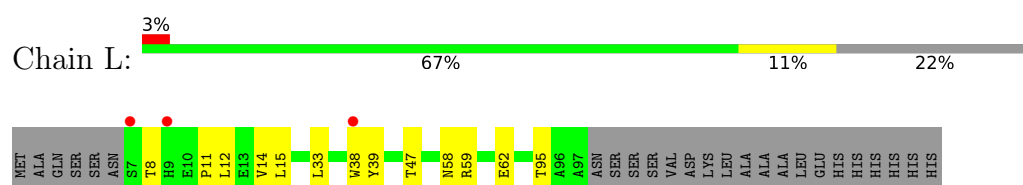
- Molecule 1: Uncharacterized protein



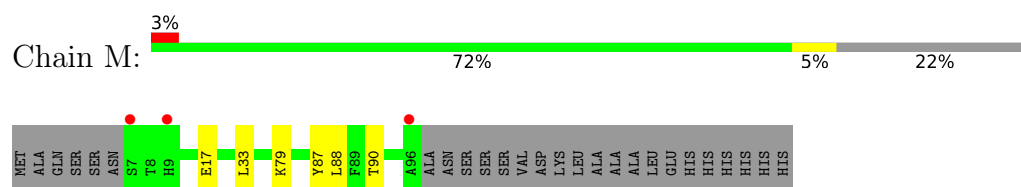
- Molecule 1: Uncharacterized protein



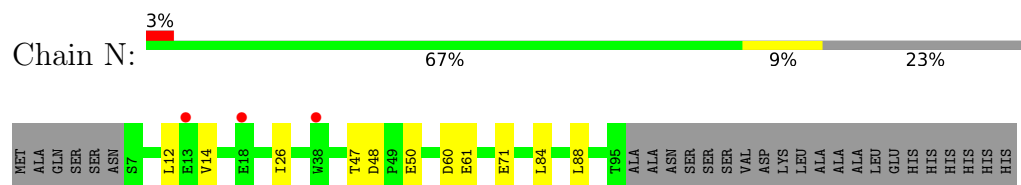
- Molecule 1: Uncharacterized protein



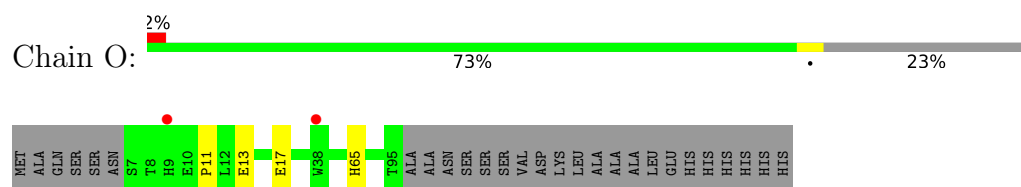
- Molecule 1: Uncharacterized protein



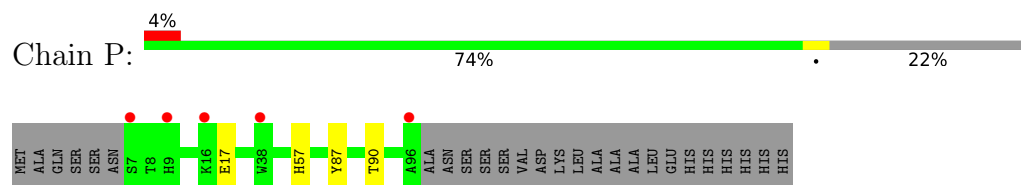
- Molecule 1: Uncharacterized protein



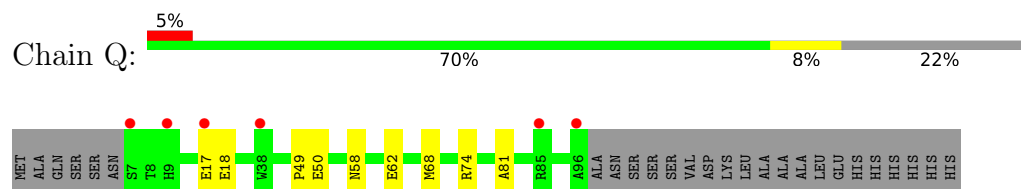
- Molecule 1: Uncharacterized protein



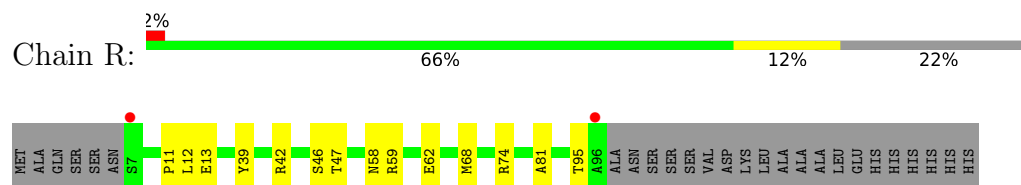
- Molecule 1: Uncharacterized protein



- Molecule 1: Uncharacterized protein



- Molecule 1: Uncharacterized protein

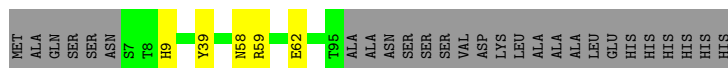


- Molecule 1: Uncharacterized protein





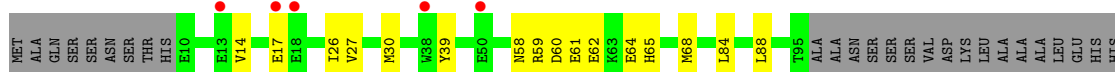
- Molecule 1: Uncharacterized protein



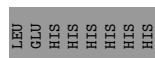
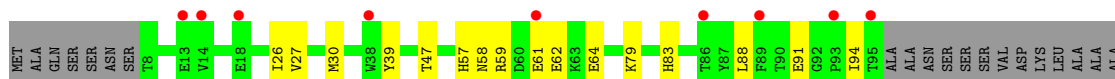
- Molecule 1: Uncharacterized protein



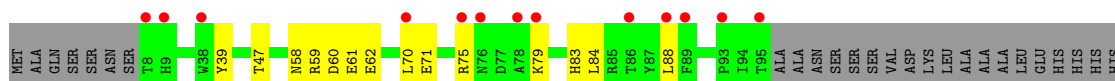
- Molecule 1: Uncharacterized protein



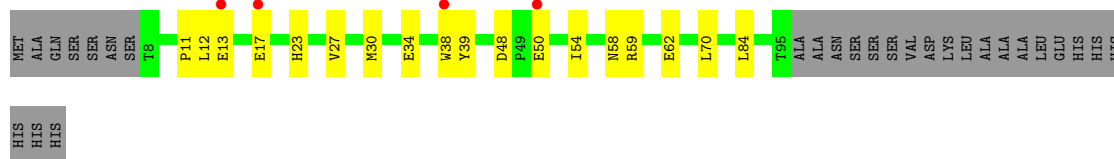
- Molecule 1: Uncharacterized protein



- Molecule 1: Uncharacterized protein



- Molecule 1: Uncharacterized protein



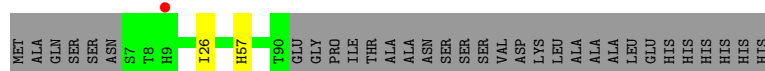
- Molecule 1: Uncharacterized protein



- Molecule 1: Uncharacterized protein



- Molecule 1: Uncharacterized protein



- Molecule 1: Uncharacterized protein



- Molecule 1: Uncharacterized protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	97.89Å 120.16Å 139.37Å 90.00° 95.33° 90.00°	Depositor
Resolution (Å)	49.40 – 2.66 49.40 – 2.66	Depositor EDS
% Data completeness (in resolution range)	93.3 (49.40-2.66) 89.4 (49.40-2.66)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.26 (at 2.65Å)	Xtriage
Refinement program	PHENIX 1.13_2998, PHENIX 1.13_2998	Depositor
R, R_{free}	0.193 , 0.234 0.195 , 0.235	Depositor DCC
R_{free} test set	4443 reflections (2.55%)	wwPDB-VP
Wilson B-factor (Å ²)	32.9	Xtriage
Anisotropy	0.106	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 41.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	43363	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.13% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: FE, CA

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.28	0/758	0.40	0/1032
1	B	0.30	0/748	0.43	0/1018
1	C	0.30	0/753	0.43	0/1025
1	D	0.31	0/748	0.44	0/1018
1	E	0.39	0/753	0.49	0/1025
1	F	0.27	0/753	0.40	0/1025
1	G	0.36	0/753	0.46	0/1025
1	H	0.34	0/753	0.51	1/1025 (0.1%)
1	I	0.29	0/753	0.46	0/1025
1	J	0.31	0/753	0.45	0/1025
1	K	0.28	0/758	0.41	0/1032
1	L	0.27	0/758	0.40	0/1032
1	M	0.27	0/753	0.40	0/1025
1	N	0.29	0/748	0.41	0/1018
1	O	0.27	0/748	0.37	0/1018
1	P	0.28	0/753	0.44	0/1025
1	Q	0.30	0/753	0.41	0/1025
1	R	0.28	0/753	0.42	0/1025
1	S	0.28	0/758	0.45	0/1032
1	T	0.28	0/748	0.41	0/1018
1	U	0.27	0/747	0.41	0/1017
1	V	0.47	1/724 (0.1%)	0.54	2/985 (0.2%)
1	W	0.52	2/742 (0.3%)	0.63	2/1010 (0.2%)
1	X	0.37	0/742	0.51	1/1010 (0.1%)
1	Y	0.34	0/742	0.45	0/1010
1	Z	0.27	0/748	0.41	0/1018
1	a	0.26	0/748	0.40	0/1018
1	b	0.23	0/712	0.37	0/968
1	c	0.27	0/753	0.41	0/1025
1	d	0.28	0/753	0.40	0/1025
All	All	0.31	3/22466 (0.0%)	0.44	6/30579 (0.0%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	61	GLU	CB-CG	-8.42	1.27	1.52
1	W	61	GLU	CG-CD	-6.97	1.34	1.52
1	V	61	GLU	CB-CG	-5.97	1.34	1.52

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	61	GLU	CG-CD-OE2	-10.40	94.47	118.40
1	V	61	GLU	CG-CD-OE2	-6.66	103.09	118.40
1	W	61	GLU	OE1-CD-OE2	6.41	138.28	122.90
1	X	61	GLU	CG-CD-OE2	-5.89	104.84	118.40
1	H	9	HIS	N-CA-CB	5.47	117.94	110.01
1	V	61	GLU	OE1-CD-OE2	5.34	135.72	122.90

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	742	708	708	5	0
1	B	732	698	698	6	0
1	C	737	703	703	13	0
1	D	732	698	698	21	0
1	E	737	703	703	10	0
1	F	737	703	703	7	0
1	G	737	703	703	11	0
1	H	737	703	703	15	0
1	I	737	703	703	13	0
1	J	737	703	703	7	0
1	K	742	708	708	6	0
1	L	742	709	708	11	0
1	M	737	704	703	6	0
1	N	732	698	698	9	0
1	O	732	698	698	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	P	737	703	703	3	0
1	Q	737	703	703	5	0
1	R	737	703	703	9	0
1	S	742	708	708	5	0
1	T	732	698	698	2	0
1	U	731	698	698	11	0
1	V	709	679	679	14	0
1	W	726	694	693	17	0
1	X	726	694	693	17	0
1	Y	726	693	693	16	0
1	Z	732	698	698	12	0
1	a	732	698	698	7	0
1	b	697	664	664	2	0
1	c	737	703	703	14	0
1	d	737	703	703	11	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
2	E	1	0	0	0	0
2	F	1	0	0	0	0
2	G	1	0	0	0	0
2	H	1	0	0	0	0
2	I	1	0	0	0	0
2	J	1	0	0	0	0
2	K	1	0	0	0	0
2	L	1	0	0	0	0
2	M	1	0	0	0	0
2	N	1	0	0	0	0
2	O	1	0	0	0	0
2	P	1	0	0	0	0
2	Q	1	0	0	0	0
2	R	1	0	0	0	0
2	S	1	0	0	0	0
2	T	1	0	0	0	0
2	U	1	0	0	0	0
2	V	1	0	0	0	0
2	W	1	0	0	0	0
2	X	1	0	0	0	0
2	Y	1	0	0	0	0
2	Z	1	0	0	0	0
2	a	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	b	1	0	0	0	0
2	c	1	0	0	0	0
2	d	1	0	0	0	0
3	A	2	0	0	0	0
3	B	3	0	0	0	0
3	D	1	0	0	0	0
3	E	3	0	0	0	0
3	F	2	0	0	0	0
3	G	1	0	0	0	0
3	H	1	0	0	0	0
3	I	2	0	0	0	0
3	J	1	0	0	0	0
3	K	2	0	0	0	0
3	L	1	0	0	0	0
3	M	1	0	0	0	0
3	O	1	0	0	0	0
3	P	1	0	0	0	0
3	Q	2	0	0	0	0
3	R	1	0	0	0	0
3	T	1	0	0	0	0
3	U	1	0	0	0	0
3	V	1	0	0	0	0
3	Y	1	0	0	0	0
3	Z	1	0	0	0	0
3	a	2	0	0	0	0
3	b	1	0	0	0	0
3	c	1	0	0	0	0
3	d	1	0	0	0	0
4	A	22	0	0	0	0
4	B	11	0	0	1	0
4	C	14	0	0	1	0
4	D	18	0	0	0	0
4	E	13	0	0	0	0
4	F	14	0	0	0	0
4	G	17	0	0	0	0
4	H	9	0	0	0	0
4	I	21	0	0	0	0
4	J	23	0	0	0	0
4	K	12	0	0	0	0
4	L	12	0	0	0	0
4	M	5	0	0	0	0
4	N	14	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	O	7	0	0	0	0
4	P	2	0	0	0	0
4	Q	2	0	0	0	0
4	R	8	0	0	0	0
4	S	17	0	0	2	0
4	T	21	0	0	0	0
4	U	6	0	0	0	0
4	V	4	0	0	0	0
4	W	5	0	0	1	0
4	X	3	0	0	0	0
4	Y	6	0	0	0	0
4	Z	10	0	0	1	0
4	a	9	0	0	0	0
4	b	12	0	0	0	0
4	c	9	0	0	0	0
4	d	3	0	0	0	0
All	All	22382	20981	20977	217	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 5.

All (217) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:64:GLU:HB2	1:X:83:HIS:CE1	1.94	1.03
1:W:64:GLU:HB2	1:X:83:HIS:NE2	1.75	1.00
1:V:26:ILE:HG22	1:V:30:MET:HE2	1.57	0.87
1:B:85:ARG:NH2	4:B:301:HOH:O	2.06	0.87
1:H:27:VAL:HA	1:H:30:MET:HE3	1.62	0.81
1:E:16:LYS:NZ	1:F:44:ASP:OD1	2.12	0.81
1:S:17:GLU:OE2	4:S:301:HOH:O	1.99	0.79
1:V:27:VAL:HA	1:V:30:MET:HE3	1.63	0.79
1:U:27:VAL:HA	1:U:30:MET:HE3	1.64	0.79
1:I:79:LYS:NZ	1:I:82:GLU:OE1	2.13	0.78
1:W:79:LYS:HE3	1:W:83:HIS:NE2	2.01	0.76
1:W:64:GLU:CB	1:X:83:HIS:CE1	2.68	0.76
1:G:8:THR:HG21	1:G:12:LEU:HD21	1.68	0.74
1:W:27:VAL:HA	1:W:30:MET:HE3	1.70	0.73
1:c:70:LEU:HD22	1:d:88:LEU:HD11	1.69	0.72
1:W:94:ILE:HD12	1:Y:54:ILE:HD11	1.72	0.72
1:L:47:THR:OG1	1:M:17:GLU:OE2	2.09	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:8:THR:HG21	1:c:12:LEU:HD21	1.74	0.70
1:W:91:GLU:OE1	4:W:301:HOH:O	2.11	0.67
1:E:71:GLU:OE2	1:E:74:ARG:NH2	2.28	0.67
1:c:70:LEU:HD21	1:c:84:LEU:HD13	1.78	0.66
1:X:84:LEU:HA	1:X:88:LEU:HD13	1.79	0.64
1:Y:38:TRP:CZ3	1:Z:9:HIS:HB2	2.32	0.64
1:a:71:GLU:OE2	1:a:74:ARG:NH2	2.30	0.64
1:D:64:GLU:HG2	1:D:68:MET:HE3	1.79	0.64
1:C:88:LEU:HD11	1:D:70:LEU:CD2	2.29	0.63
1:Y:38:TRP:CE3	1:Z:9:HIS:HB2	2.34	0.63
1:U:26:ILE:HG22	1:U:30:MET:HE2	1.81	0.63
1:H:26:ILE:HG22	1:H:30:MET:HE2	1.82	0.62
1:Z:71:GLU:OE2	1:Z:74:ARG:NH2	2.32	0.62
1:B:8:THR:HG21	1:B:12:LEU:HD21	1.82	0.61
1:U:79:LYS:HG2	1:V:60:ASP:HB3	1.83	0.61
1:c:70:LEU:HD21	1:c:84:LEU:CD1	2.30	0.60
1:D:47:THR:OG1	1:E:17:GLU:OE2	2.17	0.60
1:X:70:LEU:HD21	1:X:84:LEU:HD13	1.82	0.60
1:B:12:LEU:HD23	1:B:15:LEU:HD12	1.83	0.60
1:K:27:VAL:HA	1:K:30:MET:HE3	1.84	0.60
1:Y:27:VAL:HA	1:Y:30:MET:HE3	1.83	0.60
1:F:17:GLU:OE2	1:H:47:THR:OG1	2.12	0.59
1:c:11:PRO:HB2	1:c:13:GLU:OE1	2.02	0.59
1:G:38:TRP:CZ3	1:H:9:HIS:CG	2.90	0.59
1:N:61:GLU:OE1	1:O:65:HIS:NE2	2.27	0.59
1:Z:9:HIS:ND1	4:Z:301:HOH:O	2.32	0.58
1:W:64:GLU:CG	1:X:83:HIS:CE1	2.87	0.58
1:W:26:ILE:HG22	1:W:30:MET:HE2	1.85	0.58
1:c:70:LEU:C	1:c:70:LEU:HD23	2.28	0.58
1:c:70:LEU:CD2	1:d:88:LEU:HD11	2.34	0.57
1:X:84:LEU:O	1:X:88:LEU:HB2	2.05	0.57
1:S:64:GLU:HG2	1:S:68:MET:HE2	1.86	0.56
1:V:64:GLU:HG2	1:V:68:MET:HE2	1.87	0.56
1:V:68:MET:HE1	1:W:57:HIS:CE1	2.41	0.56
1:K:11:PRO:O	1:K:14:VAL:HG22	2.06	0.56
1:D:14:VAL:O	1:D:14:VAL:HG22	2.05	0.55
1:c:70:LEU:HD23	1:c:70:LEU:O	2.08	0.54
1:G:64:GLU:HG2	1:G:68:MET:HE3	1.89	0.54
1:R:11:PRO:HB2	1:R:13:GLU:OE1	2.08	0.53
1:I:44:ASP:OD1	1:J:16:LYS:HE2	2.08	0.53
1:c:13:GLU:OE1	1:c:13:GLU:N	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:HIS:CE1	1:J:68:MET:HE1	2.43	0.53
1:B:87:TYR:O	1:B:90:THR:OG1	2.24	0.53
1:X:58:ASN:O	1:X:62:GLU:HG2	2.09	0.52
1:Y:48:ASP:OD2	1:Y:50:GLU:OE1	2.27	0.52
1:Y:34:GLU:O	1:Y:38:TRP:HD1	1.92	0.52
1:G:38:TRP:HZ3	1:H:9:HIS:CB	2.23	0.52
1:C:87:TYR:CZ	1:D:68:MET:HE2	2.45	0.51
1:W:88:LEU:HD11	1:X:70:LEU:HD22	1.93	0.51
1:a:27:VAL:HA	1:a:30:MET:HE3	1.92	0.51
1:H:14:VAL:O	1:H:14:VAL:HG22	2.10	0.51
1:M:79:LYS:HG2	1:N:60:ASP:HB3	1.92	0.51
1:C:70:LEU:HD21	1:D:70:LEU:HD11	1.93	0.51
1:O:11:PRO:HB2	1:O:13:GLU:OE1	2.10	0.51
1:E:16:LYS:HZ3	1:F:44:ASP:CG	2.19	0.51
1:a:26:ILE:HG22	1:a:30:MET:HE2	1.92	0.51
1:V:84:LEU:O	1:V:88:LEU:HD13	2.11	0.50
1:U:68:MET:HE2	1:d:54:ILE:HG23	1.92	0.50
1:N:14:VAL:HG22	1:N:14:VAL:O	2.10	0.50
1:H:9:HIS:CG	1:I:7:SER:CB	2.95	0.50
1:L:12:LEU:HD23	1:L:15:LEU:HD12	1.92	0.50
1:L:14:VAL:HG22	1:L:14:VAL:O	2.11	0.50
1:V:84:LEU:HA	1:V:88:LEU:HD13	1.93	0.50
1:H:9:HIS:CB	1:I:7:SER:HB2	2.42	0.50
1:N:48:ASP:OD1	1:N:50:GLU:OE1	2.29	0.50
1:C:87:TYR:OH	1:D:68:MET:HE2	2.12	0.50
1:Q:58:ASN:O	1:Q:62:GLU:HG2	2.12	0.50
1:I:11:PRO:O	1:I:14:VAL:HG22	2.12	0.49
1:P:17:GLU:OE2	1:R:47:THR:HG21	2.12	0.49
1:G:12:LEU:HD23	1:G:15:LEU:HD12	1.94	0.49
1:W:79:LYS:HG2	1:X:60:ASP:HB3	1.93	0.49
1:N:12:LEU:N	1:N:12:LEU:HD12	2.27	0.49
1:S:44:ASP:O	4:S:302:HOH:O	2.20	0.49
1:a:74:ARG:HG2	1:a:81:ALA:HA	1.94	0.49
1:Y:70:LEU:CD2	1:Z:88:LEU:HD11	2.43	0.49
1:L:47:THR:CB	1:M:17:GLU:OE2	2.60	0.49
1:U:17:GLU:OE2	1:d:47:THR:OG1	2.28	0.49
1:G:47:THR:HG21	1:I:17:GLU:OE2	2.13	0.48
1:Z:58:ASN:O	1:Z:62:GLU:HG2	2.13	0.48
1:G:38:TRP:HZ3	1:H:9:HIS:CG	2.30	0.48
1:V:14:VAL:HG22	1:V:14:VAL:O	2.12	0.48
1:D:84:LEU:O	1:D:88:LEU:HD13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:39:TYR:HB3	1:Z:59:ARG:HB2	1.96	0.48
1:V:65:HIS:HA	1:V:68:MET:HE3	1.94	0.48
1:W:79:LYS:HE3	1:W:83:HIS:CD2	2.49	0.48
1:E:87:TYR:O	1:E:90:THR:OG1	2.29	0.48
1:G:68:MET:HE1	1:I:57:HIS:CE1	2.49	0.48
1:R:12:LEU:HD12	1:R:12:LEU:N	2.29	0.47
1:C:88:LEU:HD21	1:D:70:LEU:HD22	1.97	0.47
1:D:58:ASN:O	1:D:62:GLU:HG2	2.15	0.47
1:E:74:ARG:HG2	1:E:81:ALA:HA	1.95	0.47
1:H:9:HIS:CG	1:I:7:SER:OG	2.68	0.47
1:H:58:ASN:O	1:H:62:GLU:HG2	2.15	0.47
1:X:70:LEU:HD21	1:X:84:LEU:CD1	2.44	0.47
1:X:70:LEU:HD23	1:X:70:LEU:C	2.40	0.47
1:Z:11:PRO:O	1:Z:14:VAL:HG22	2.15	0.47
1:P:87:TYR:O	1:P:90:THR:OG1	2.31	0.47
1:E:58:ASN:O	1:E:62:GLU:HG2	2.15	0.46
1:I:18:GLU:OE1	1:I:18:GLU:N	2.39	0.46
1:Y:70:LEU:HD21	1:Y:84:LEU:HD13	1.98	0.46
1:T:39:TYR:HB3	1:T:59:ARG:HB2	1.97	0.46
1:V:39:TYR:HB3	1:V:59:ARG:HB2	1.98	0.46
1:H:9:HIS:CG	1:I:7:SER:HB2	2.50	0.46
1:I:58:ASN:O	1:I:62:GLU:HG2	2.16	0.46
1:H:39:TYR:HB3	1:H:59:ARG:HB2	1.97	0.46
1:Y:58:ASN:O	1:Y:62:GLU:HG2	2.16	0.45
1:Q:17:GLU:HG3	1:Q:18:GLU:N	2.31	0.45
1:U:33:LEU:HB3	1:V:26:ILE:HG23	1.99	0.45
1:J:58:ASN:O	1:J:62:GLU:HG2	2.16	0.45
1:D:84:LEU:HA	1:D:88:LEU:HD13	1.97	0.45
1:Q:68:MET:HE3	1:R:95:THR:HA	1.97	0.45
1:D:84:LEU:CA	1:D:88:LEU:HD13	2.47	0.45
1:I:74:ARG:HG3	1:I:81:ALA:HA	1.98	0.45
1:R:39:TYR:HB3	1:R:59:ARG:HB2	1.99	0.45
1:F:58:ASN:O	1:F:62:GLU:HG2	2.17	0.45
1:N:47:THR:OG1	1:O:17:GLU:OE2	2.28	0.45
1:Z:68:MET:HE1	1:b:57:HIS:CE1	2.52	0.45
1:U:39:TYR:HB3	1:U:59:ARG:HB2	1.98	0.45
1:V:84:LEU:CA	1:V:88:LEU:HD13	2.46	0.45
1:S:95:THR:O	1:S:95:THR:HG22	2.17	0.45
1:L:8:THR:HG21	1:L:12:LEU:HD21	1.98	0.45
1:F:39:TYR:HB3	1:F:59:ARG:HB2	1.99	0.44
1:P:57:HIS:CE1	1:R:68:MET:HE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:87:TYR:O	1:U:90:THR:OG1	2.33	0.44
1:Y:70:LEU:HD22	1:Z:88:LEU:HD11	1.99	0.44
1:X:79:LYS:HE3	1:X:83:HIS:CD2	2.53	0.44
1:L:39:TYR:HB3	1:L:59:ARG:HB2	1.99	0.44
1:d:48:ASP:OD1	1:d:50:GLU:OE1	2.35	0.44
1:C:14:VAL:HG22	1:C:14:VAL:O	2.17	0.44
1:C:33:LEU:HB3	1:D:26:ILE:HG23	1.99	0.44
1:D:36:VAL:HG22	1:D:62:GLU:HB2	2.00	0.44
1:J:65:HIS:HA	1:J:68:MET:HE3	1.98	0.44
1:M:88:LEU:HA	1:N:71:GLU:OE1	2.16	0.44
1:V:17:GLU:OE2	1:W:47:THR:OG1	2.15	0.44
1:C:60:ASP:CG	1:D:79:LYS:HG3	2.43	0.44
1:C:88:LEU:HD11	1:D:70:LEU:HD22	1.99	0.44
1:A:68:MET:HE2	1:J:54:ILE:HG23	2.00	0.44
1:C:88:LEU:HA	1:D:71:GLU:OE1	2.18	0.44
1:G:33:LEU:HB3	1:H:26:ILE:HG23	2.00	0.44
1:M:33:LEU:HB3	1:N:26:ILE:HG23	1.99	0.44
1:X:39:TYR:HB3	1:X:59:ARG:HB2	2.00	0.44
1:C:58:ASN:O	1:C:62:GLU:HG2	2.18	0.43
1:W:39:TYR:HB3	1:W:59:ARG:HB2	2.00	0.43
1:X:71:GLU:OE2	1:X:75:ARG:NE	2.42	0.43
1:E:33:LEU:HB3	1:F:26:ILE:HG23	2.00	0.43
1:Y:11:PRO:CB	1:Y:13:GLU:OE1	2.67	0.43
1:A:43:VAL:HG13	1:A:52:THR:HG23	2.00	0.43
1:C:88:LEU:HD11	1:D:70:LEU:HD23	1.98	0.43
1:d:39:TYR:HB3	1:d:59:ARG:HB2	2.01	0.43
1:W:64:GLU:N	1:X:83:HIS:CD2	2.86	0.43
1:c:79:LYS:HG3	1:d:60:ASP:CG	2.43	0.43
1:A:39:TYR:HB3	1:A:59:ARG:HB2	2.00	0.43
1:F:54:ILE:HG23	1:H:68:MET:HE2	2.00	0.43
1:G:58:ASN:O	1:G:62:GLU:HG2	2.19	0.43
1:Q:49:PRO:HG2	1:Q:50:GLU:OE2	2.18	0.43
1:U:54:ILE:HG23	1:d:68:MET:HE2	2.01	0.43
1:S:11:PRO:HB2	1:S:13:GLU:OE1	2.19	0.43
1:N:84:LEU:HA	1:N:88:LEU:HD13	2.00	0.42
1:M:87:TYR:O	1:M:90:THR:OG1	2.30	0.42
1:Y:23:HIS:O	1:Y:27:VAL:HG22	2.19	0.42
1:a:33:LEU:HB3	1:b:26:ILE:HG23	2.00	0.42
1:V:58:ASN:O	1:V:62:GLU:HG2	2.20	0.42
1:a:39:TYR:HB3	1:a:59:ARG:HB2	2.01	0.42
1:c:39:TYR:HB3	1:c:59:ARG:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:58:ASN:O	1:K:62:GLU:HG2	2.19	0.42
1:R:74:ARG:HG3	1:R:81:ALA:HA	2.01	0.42
1:B:11:PRO:O	1:B:14:VAL:HG12	2.20	0.42
1:W:58:ASN:O	1:W:62:GLU:HG2	2.20	0.42
1:B:14:VAL:HG22	1:B:14:VAL:O	2.20	0.42
1:D:14:VAL:O	1:D:14:VAL:CG2	2.67	0.42
1:I:44:ASP:CG	1:J:16:LYS:HE2	2.45	0.42
1:d:58:ASN:O	1:d:62:GLU:HG2	2.20	0.42
1:T:58:ASN:O	1:T:62:GLU:HG2	2.20	0.42
1:c:12:LEU:HD23	1:c:15:LEU:HD12	2.02	0.41
1:J:39:TYR:HB3	1:J:59:ARG:HB2	2.01	0.41
1:K:26:ILE:HG23	1:L:33:LEU:HB3	2.02	0.41
1:A:12:LEU:HD12	1:A:12:LEU:N	2.35	0.41
1:Q:74:ARG:HG3	1:Q:81:ALA:HA	2.02	0.41
1:G:39:TYR:HB3	1:G:59:ARG:HB2	2.03	0.41
1:L:11:PRO:O	1:L:14:VAL:HG12	2.21	0.41
1:R:58:ASN:O	1:R:62:GLU:HG2	2.20	0.41
1:X:47:THR:OG1	1:Y:17:GLU:OE2	2.31	0.41
1:a:12:LEU:HD22	1:a:20:VAL:HG21	2.02	0.41
1:C:61:GLU:OE2	4:C:301:HOH:O	2.22	0.41
1:D:84:LEU:HD22	1:D:88:LEU:HD11	2.03	0.41
1:R:42:ARG:O	1:R:46:SER:N	2.54	0.41
1:Z:74:ARG:HG2	1:Z:81:ALA:HA	2.03	0.41
1:K:9:HIS:CD2	1:L:38:TRP:NE1	2.89	0.41
1:U:17:GLU:CD	1:d:47:THR:OG1	2.64	0.41
1:Y:38:TRP:CZ3	1:Z:9:HIS:CB	3.03	0.41
1:c:26:ILE:HG23	1:d:33:LEU:HB3	2.03	0.41
1:D:84:LEU:CD2	1:D:88:LEU:HD11	2.51	0.40
1:U:58:ASN:O	1:U:62:GLU:HG2	2.21	0.40
1:E:51:LEU:HD11	1:E:55:LEU:HD11	2.03	0.40
1:Y:39:TYR:HB3	1:Y:59:ARG:HB2	2.02	0.40
1:Y:12:LEU:HD12	1:Y:12:LEU:N	2.36	0.40
1:c:81:ALA:O	1:c:85:ARG:HB2	2.21	0.40
1:E:13:GLU:H	1:E:13:GLU:CD	2.27	0.40
1:K:68:MET:HE3	1:L:95:THR:HA	2.04	0.40
1:L:58:ASN:O	1:L:62:GLU:HG2	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	89/116 (77%)	89 (100%)	0	0	100	100
1	B	87/116 (75%)	87 (100%)	0	0	100	100
1	C	88/116 (76%)	87 (99%)	1 (1%)	0	100	100
1	D	87/116 (75%)	87 (100%)	0	0	100	100
1	E	88/116 (76%)	88 (100%)	0	0	100	100
1	F	88/116 (76%)	88 (100%)	0	0	100	100
1	G	88/116 (76%)	87 (99%)	1 (1%)	0	100	100
1	H	88/116 (76%)	88 (100%)	0	0	100	100
1	I	88/116 (76%)	88 (100%)	0	0	100	100
1	J	88/116 (76%)	87 (99%)	1 (1%)	0	100	100
1	K	89/116 (77%)	89 (100%)	0	0	100	100
1	L	89/116 (77%)	89 (100%)	0	0	100	100
1	M	88/116 (76%)	88 (100%)	0	0	100	100
1	N	87/116 (75%)	87 (100%)	0	0	100	100
1	O	87/116 (75%)	87 (100%)	0	0	100	100
1	P	88/116 (76%)	87 (99%)	1 (1%)	0	100	100
1	Q	88/116 (76%)	88 (100%)	0	0	100	100
1	R	88/116 (76%)	88 (100%)	0	0	100	100
1	S	89/116 (77%)	89 (100%)	0	0	100	100
1	T	87/116 (75%)	87 (100%)	0	0	100	100
1	U	87/116 (75%)	87 (100%)	0	0	100	100
1	V	84/116 (72%)	84 (100%)	0	0	100	100
1	W	86/116 (74%)	86 (100%)	0	0	100	100
1	X	86/116 (74%)	85 (99%)	1 (1%)	0	100	100
1	Y	86/116 (74%)	86 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Z	87/116 (75%)	87 (100%)	0	0	100	100
1	a	87/116 (75%)	87 (100%)	0	0	100	100
1	b	82/116 (71%)	82 (100%)	0	0	100	100
1	c	88/116 (76%)	86 (98%)	2 (2%)	0	100	100
1	d	88/116 (76%)	87 (99%)	1 (1%)	0	100	100
All	All	2620/3480 (75%)	2612 (100%)	8 (0%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	78/99 (79%)	78 (100%)	0	100	100
1	B	78/99 (79%)	78 (100%)	0	100	100
1	C	78/99 (79%)	78 (100%)	0	100	100
1	D	78/99 (79%)	78 (100%)	0	100	100
1	E	78/99 (79%)	77 (99%)	1 (1%)	61	77
1	F	78/99 (79%)	77 (99%)	1 (1%)	61	77
1	G	78/99 (79%)	77 (99%)	1 (1%)	61	77
1	H	78/99 (79%)	77 (99%)	1 (1%)	61	77
1	I	78/99 (79%)	78 (100%)	0	100	100
1	J	78/99 (79%)	78 (100%)	0	100	100
1	K	78/99 (79%)	78 (100%)	0	100	100
1	L	78/99 (79%)	78 (100%)	0	100	100
1	M	78/99 (79%)	78 (100%)	0	100	100
1	N	78/99 (79%)	78 (100%)	0	100	100
1	O	78/99 (79%)	78 (100%)	0	100	100
1	P	78/99 (79%)	78 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Q	78/99 (79%)	78 (100%)	0	100	100
1	R	78/99 (79%)	78 (100%)	0	100	100
1	S	78/99 (79%)	77 (99%)	1 (1%)	61	77
1	T	78/99 (79%)	77 (99%)	1 (1%)	61	77
1	U	77/99 (78%)	77 (100%)	0	100	100
1	V	75/99 (76%)	75 (100%)	0	100	100
1	W	77/99 (78%)	77 (100%)	0	100	100
1	X	77/99 (78%)	77 (100%)	0	100	100
1	Y	77/99 (78%)	77 (100%)	0	100	100
1	Z	78/99 (79%)	78 (100%)	0	100	100
1	a	78/99 (79%)	78 (100%)	0	100	100
1	b	74/99 (75%)	74 (100%)	0	100	100
1	c	78/99 (79%)	78 (100%)	0	100	100
1	d	78/99 (79%)	78 (100%)	0	100	100
All	All	2329/2970 (78%)	2323 (100%)	6 (0%)	86	94

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	55	LEU
1	F	9	HIS
1	G	91	GLU
1	H	9	HIS
1	S	91	GLU
1	T	9	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	Q	9	HIS
1	S	76	ASN
1	W	65	HIS
1	X	83	HIS
1	b	9	HIS
1	c	83	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 65 ligands modelled in this entry, 65 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å ²)	Q < 0.9
1	A	91/116 (78%)	-0.16	2 (2%) 62 56	28, 34, 62, 78	0
1	B	89/116 (76%)	-0.17	2 (2%) 62 56	28, 35, 57, 72	0
1	C	90/116 (77%)	-0.03	2 (2%) 62 56	31, 39, 65, 79	0
1	D	89/116 (76%)	-0.04	2 (2%) 62 56	32, 39, 63, 67	0
1	E	90/116 (77%)	-0.04	2 (2%) 62 56	31, 38, 61, 71	0
1	F	90/116 (77%)	-0.08	2 (2%) 62 56	26, 37, 62, 73	0
1	G	90/116 (77%)	-0.10	5 (5%) 30 24	27, 34, 60, 79	0
1	H	90/116 (77%)	-0.04	6 (6%) 24 18	26, 36, 59, 85	0
1	I	90/116 (77%)	-0.14	1 (1%) 78 75	26, 33, 58, 71	0
1	J	90/116 (77%)	-0.28	1 (1%) 78 75	29, 34, 57, 65	0
1	K	91/116 (78%)	-0.10	2 (2%) 62 56	30, 38, 61, 74	0
1	L	91/116 (78%)	-0.06	3 (3%) 49 40	30, 37, 62, 74	0
1	M	90/116 (77%)	-0.01	3 (3%) 49 40	33, 41, 61, 77	0
1	N	89/116 (76%)	-0.01	3 (3%) 48 40	30, 40, 67, 78	0
1	O	89/116 (76%)	0.12	2 (2%) 62 56	35, 46, 72, 83	0
1	P	90/116 (77%)	0.12	5 (5%) 30 24	37, 46, 73, 84	0
1	Q	90/116 (77%)	0.03	6 (6%) 24 18	29, 40, 69, 84	0
1	R	90/116 (77%)	0.07	2 (2%) 62 56	34, 45, 66, 79	0
1	S	91/116 (78%)	-0.18	1 (1%) 78 75	28, 36, 56, 64	0
1	T	89/116 (76%)	-0.31	0 100 100	28, 33, 60, 72	0
1	U	89/116 (76%)	0.29	4 (4%) 38 31	33, 47, 74, 88	0
1	V	86/116 (74%)	0.44	5 (5%) 29 22	37, 53, 76, 90	0
1	W	88/116 (75%)	0.80	9 (10%) 12 9	51, 62, 83, 91	0
1	X	88/116 (75%)	0.94	13 (14%) 5 4	42, 64, 86, 96	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	Y	88/116 (75%)	0.21	4 (4%) 38 31	37, 50, 69, 83	0
1	Z	89/116 (76%)	0.09	5 (5%) 30 24	33, 45, 72, 95	0
1	a	89/116 (76%)	-0.01	1 (1%) 78 75	32, 41, 63, 75	0
1	b	84/116 (72%)	-0.13	1 (1%) 76 72	33, 40, 62, 77	0
1	c	90/116 (77%)	0.03	3 (3%) 49 40	30, 41, 71, 85	0
1	d	90/116 (77%)	0.15	2 (2%) 62 56	34, 46, 71, 80	0
All	All	2680/3480 (77%)	0.04	99 (3%) 45 37	26, 41, 71, 96	0

All (99) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	9	HIS	5.4
1	G	9	HIS	5.2
1	d	96	ALA	4.5
1	U	9	HIS	4.4
1	P	96	ALA	4.2
1	X	88	LEU	4.0
1	H	50	GLU	3.8
1	M	96	ALA	3.8
1	Q	7	SER	3.7
1	W	38	TRP	3.6
1	X	79	LYS	3.6
1	H	96	ALA	3.5
1	D	70	LEU	3.5
1	G	38	TRP	3.4
1	c	9	HIS	3.4
1	X	86	THR	3.3
1	X	95	THR	3.3
1	P	7	SER	3.3
1	Z	9	HIS	3.3
1	K	97	ALA	3.3
1	N	13	GLU	3.2
1	F	96	ALA	3.2
1	Y	38	TRP	3.1
1	A	9	HIS	3.0
1	V	17	GLU	3.0
1	U	96	ALA	3.0
1	Q	38	TRP	2.9
1	H	85	ARG	2.9
1	U	38	TRP	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	12	LEU	2.8
1	X	89	PHE	2.8
1	X	9	HIS	2.8
1	X	70	LEU	2.8
1	F	9	HIS	2.7
1	C	96	ALA	2.7
1	W	95	THR	2.7
1	c	96	ALA	2.7
1	V	18	GLU	2.6
1	L	38	TRP	2.6
1	a	95	THR	2.6
1	X	78	ALA	2.6
1	X	38	TRP	2.5
1	U	85	ARG	2.5
1	P	9	HIS	2.5
1	V	13	GLU	2.5
1	E	96	ALA	2.5
1	W	86	THR	2.5
1	J	16	LYS	2.5
1	d	16	LYS	2.5
1	N	18	GLU	2.5
1	Y	13	GLU	2.5
1	H	7	SER	2.4
1	V	38	TRP	2.4
1	H	13	GLU	2.4
1	A	18	GLU	2.4
1	Y	50	GLU	2.4
1	Q	85	ARG	2.4
1	G	8	THR	2.3
1	R	7	SER	2.3
1	X	93	PRO	2.3
1	X	76	ASN	2.3
1	Q	17	GLU	2.3
1	Z	13	GLU	2.3
1	W	93	PRO	2.3
1	Z	95	THR	2.3
1	Q	96	ALA	2.3
1	E	38	TRP	2.3
1	O	38	TRP	2.3
1	I	13	GLU	2.2
1	W	89	PHE	2.2
1	R	96	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
1	L	7	SER	2.2
1	M	7	SER	2.2
1	B	38	TRP	2.2
1	V	50	GLU	2.2
1	C	7	SER	2.2
1	O	9	HIS	2.2
1	Q	9	HIS	2.2
1	W	13	GLU	2.1
1	Z	12	LEU	2.1
1	L	9	HIS	2.1
1	S	13	GLU	2.1
1	Y	17	GLU	2.1
1	X	8	THR	2.1
1	c	18	GLU	2.1
1	b	9	HIS	2.1
1	G	96	ALA	2.1
1	W	61	GLU	2.1
1	P	38	TRP	2.1
1	M	9	HIS	2.1
1	G	13	GLU	2.0
1	W	18	GLU	2.0
1	N	38	TRP	2.0
1	D	17	GLU	2.0
1	P	16	LYS	2.0
1	K	7	SER	2.0
1	Z	7	SER	2.0
1	W	14	VAL	2.0
1	X	75	ARG	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,

median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	CA	D	202	1/1	0.66	0.19	78,78,78,78	0
3	CA	B	202	1/1	0.67	0.16	71,71,71,71	0
3	CA	B	203	1/1	0.72	0.16	70,70,70,70	0
3	CA	A	203	1/1	0.73	0.19	79,79,79,79	0
3	CA	M	202	1/1	0.74	0.13	70,70,70,70	0
3	CA	Q	202	1/1	0.76	0.15	66,66,66,66	0
3	CA	E	204	1/1	0.78	0.17	61,61,61,61	0
3	CA	b	202	1/1	0.78	0.13	77,77,77,77	0
3	CA	I	202	1/1	0.79	0.13	65,65,65,65	0
3	CA	U	202	1/1	0.80	0.16	76,76,76,76	0
3	CA	J	202	1/1	0.81	0.13	66,66,66,66	0
3	CA	a	202	1/1	0.81	0.09	70,70,70,70	0
3	CA	K	202	1/1	0.81	0.13	73,73,73,73	0
3	CA	E	203	1/1	0.82	0.11	70,70,70,70	0
3	CA	R	202	1/1	0.83	0.15	81,81,81,81	0
3	CA	O	202	1/1	0.83	0.17	82,82,82,82	0
3	CA	K	203	1/1	0.84	0.09	65,65,65,65	0
3	CA	G	202	1/1	0.84	0.10	73,73,73,73	0
3	CA	F	203	1/1	0.85	0.15	75,75,75,75	0
3	CA	F	202	1/1	0.87	0.11	69,69,69,69	0
3	CA	Q	203	1/1	0.87	0.10	65,65,65,65	0
3	CA	H	202	1/1	0.87	0.16	78,78,78,78	0
3	CA	c	202	1/1	0.88	0.12	80,80,80,80	0
3	CA	P	202	1/1	0.89	0.15	73,73,73,73	0
3	CA	a	203	1/1	0.89	0.11	66,66,66,66	0
3	CA	A	202	1/1	0.90	0.10	70,70,70,70	0
3	CA	Y	202	1/1	0.90	0.14	79,79,79,79	0
3	CA	T	202	1/1	0.90	0.11	66,66,66,66	0
3	CA	d	202	1/1	0.90	0.17	72,72,72,72	0
3	CA	Z	202	1/1	0.91	0.11	66,66,66,66	0
3	CA	E	202	1/1	0.93	0.08	58,58,58,58	0
3	CA	V	202	1/1	0.93	0.12	77,77,77,77	0
3	CA	B	204	1/1	0.93	0.10	76,76,76,76	0
3	CA	I	203	1/1	0.94	0.09	76,76,76,76	0
3	CA	L	202	1/1	0.94	0.07	67,67,67,67	0
2	FE	N	201	1/1	0.95	0.06	37,37,37,37	0
2	FE	G	201	1/1	0.95	0.05	33,33,33,33	0
2	FE	B	201	1/1	0.96	0.04	32,32,32,32	0
2	FE	R	201	1/1	0.96	0.04	40,40,40,40	0
2	FE	U	201	1/1	0.96	0.05	37,37,37,37	0
2	FE	V	201	1/1	0.96	0.04	50,50,50,50	0

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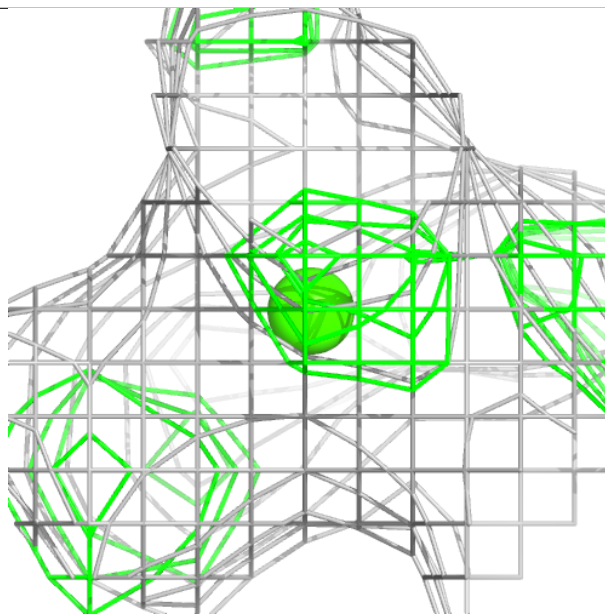
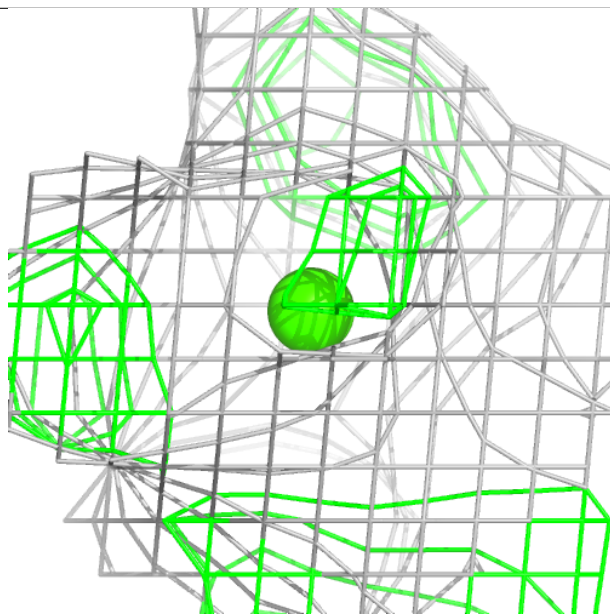
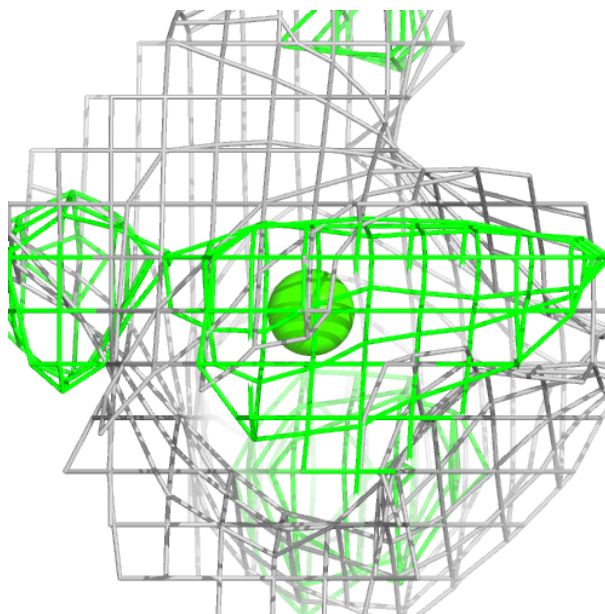
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	FE	W	201	1/1	0.96	0.05	53,53,53,53	0
2	FE	Y	201	1/1	0.96	0.05	47,47,47,47	0
2	FE	Z	201	1/1	0.96	0.05	39,39,39,39	0
2	FE	F	201	1/1	0.97	0.05	32,32,32,32	0
2	FE	b	201	1/1	0.97	0.03	35,35,35,35	0
2	FE	c	201	1/1	0.97	0.04	34,34,34,34	0
2	FE	d	201	1/1	0.97	0.04	34,34,34,34	0
2	FE	O	201	1/1	0.97	0.04	37,37,37,37	0
2	FE	D	201	1/1	0.97	0.04	37,37,37,37	0
2	FE	S	201	1/1	0.97	0.04	30,30,30,30	0
2	FE	T	201	1/1	0.97	0.04	36,36,36,36	0
2	FE	H	201	1/1	0.97	0.04	34,34,34,34	0
2	FE	K	201	1/1	0.97	0.04	32,32,32,32	0
2	FE	L	201	1/1	0.97	0.03	31,31,31,31	0
2	FE	X	201	1/1	0.97	0.04	49,49,49,49	0
2	FE	M	201	1/1	0.97	0.04	33,33,33,33	0
2	FE	E	201	1/1	0.98	0.04	33,33,33,33	0
2	FE	I	201	1/1	0.98	0.03	27,27,27,27	0
2	FE	C	201	1/1	0.98	0.04	32,32,32,32	0
2	FE	a	201	1/1	0.98	0.04	34,34,34,34	0
2	FE	Q	201	1/1	0.98	0.04	37,37,37,37	0
2	FE	A	201	1/1	0.98	0.03	22,22,22,22	0
2	FE	P	201	1/1	0.99	0.03	36,36,36,36	0
2	FE	J	201	1/1	0.99	0.03	27,27,27,27	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

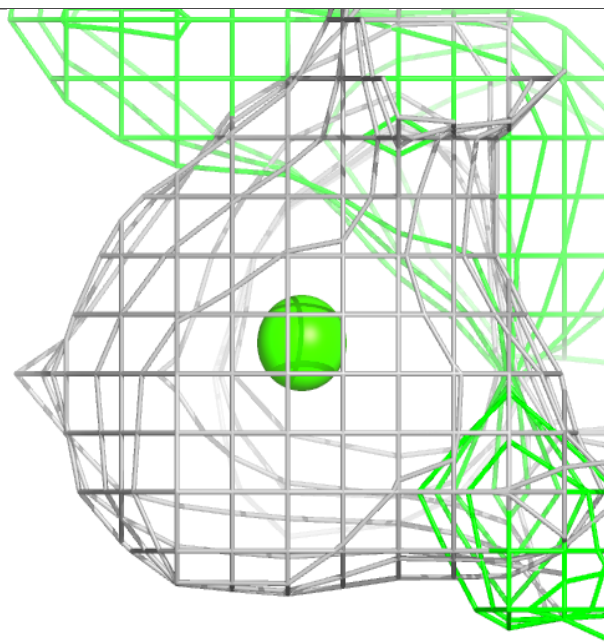
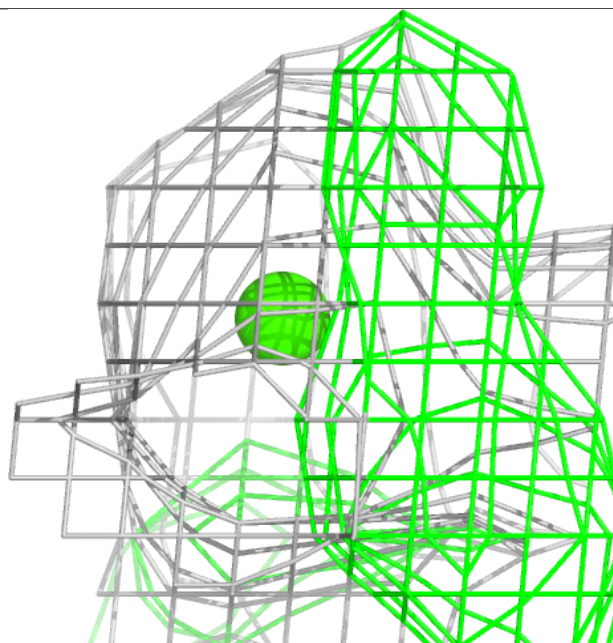
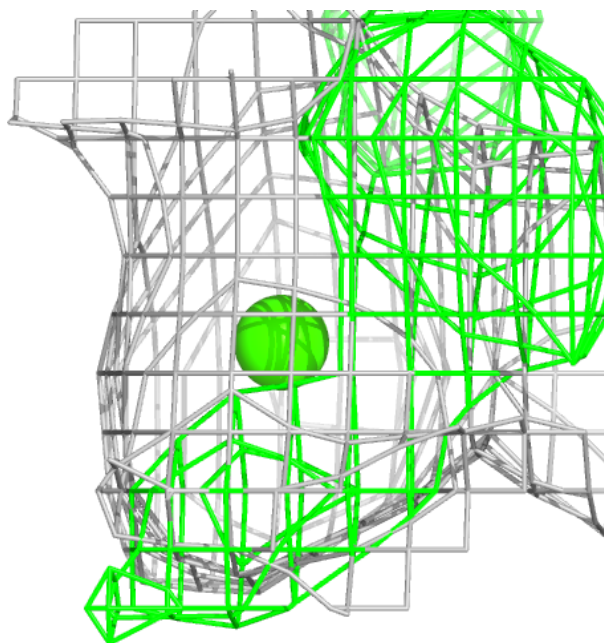
Electron density around CA D 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



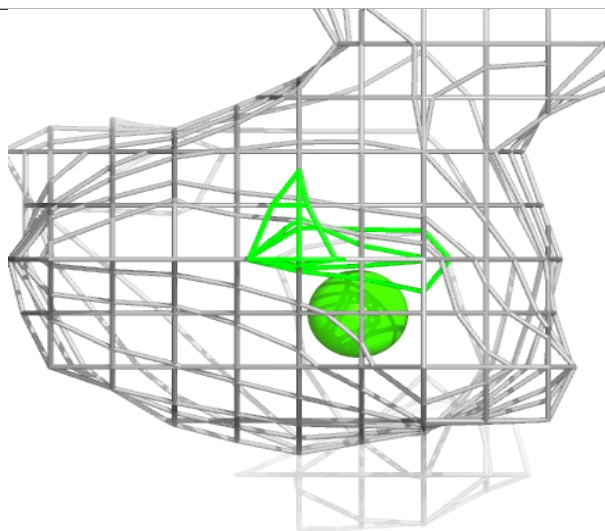
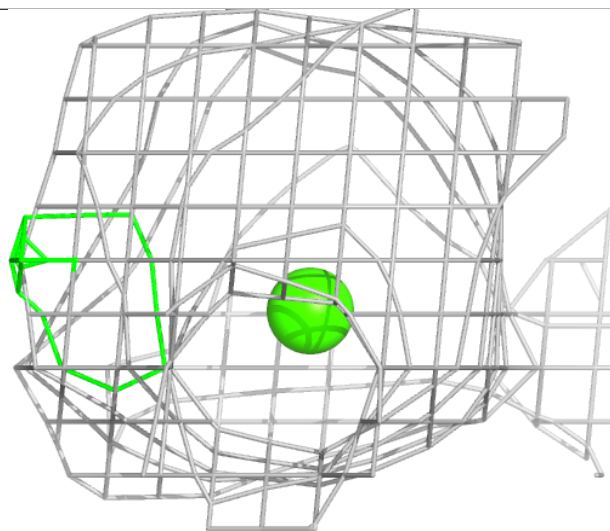
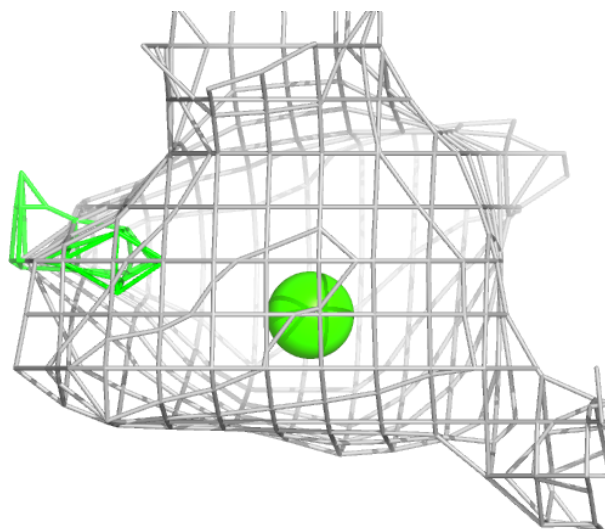
Electron density around CA B 202:

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and green (positive)



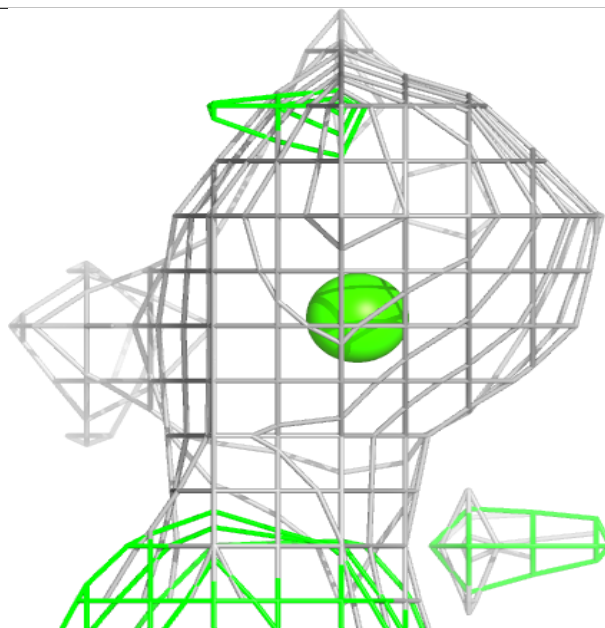
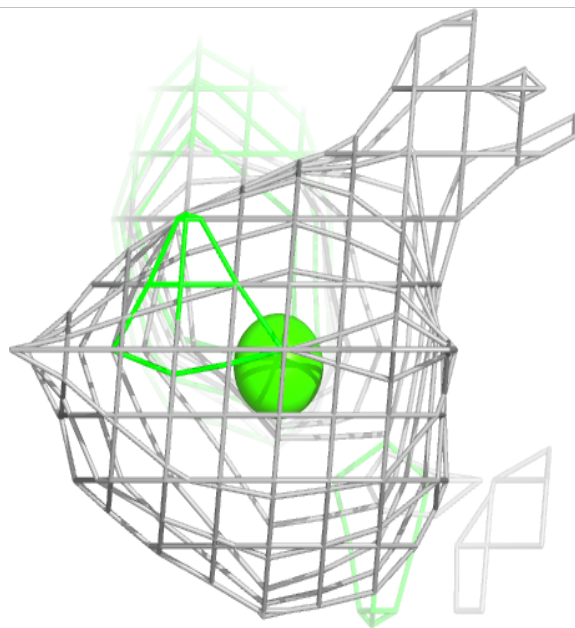
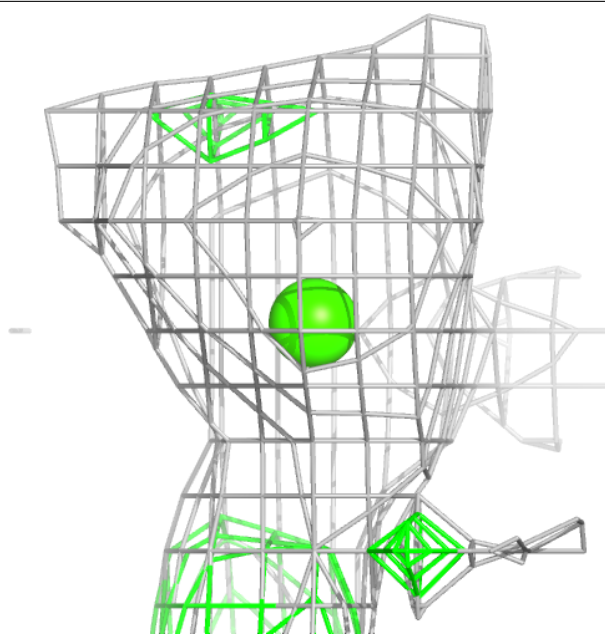
Electron density around CA B 203:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



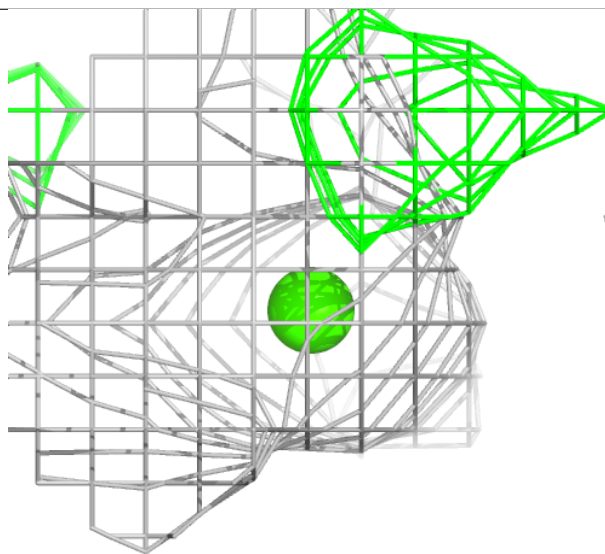
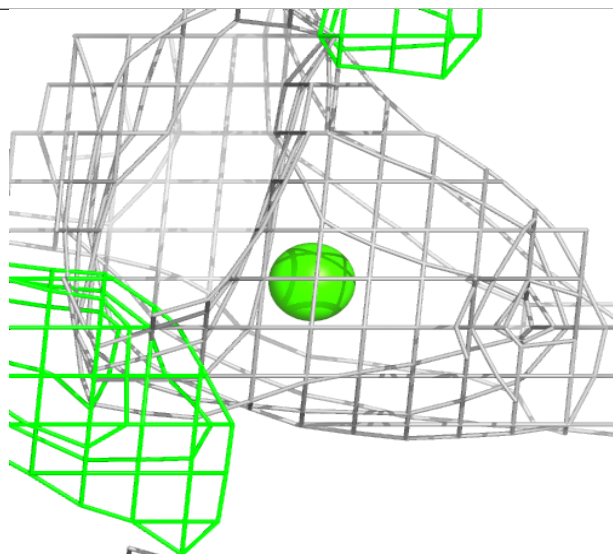
Electron density around CA A 203:

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 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



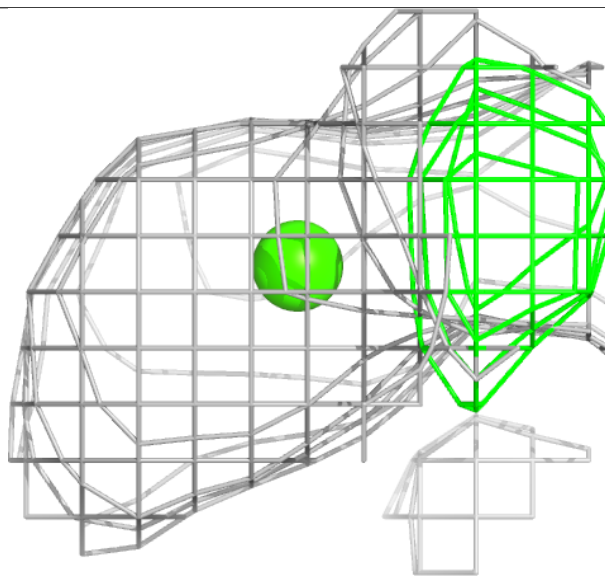
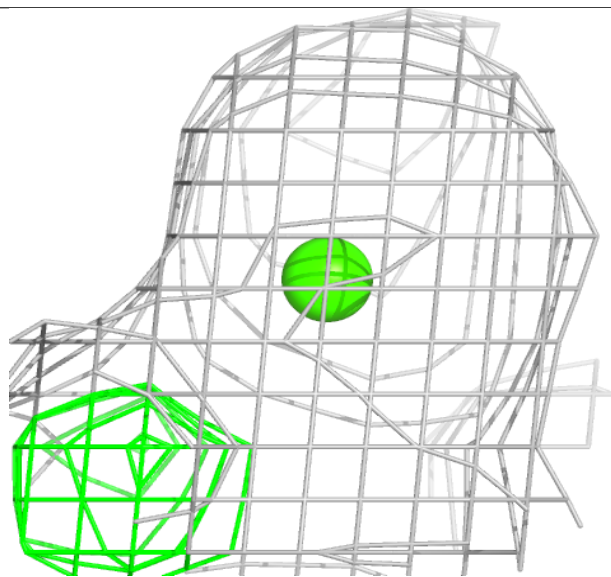
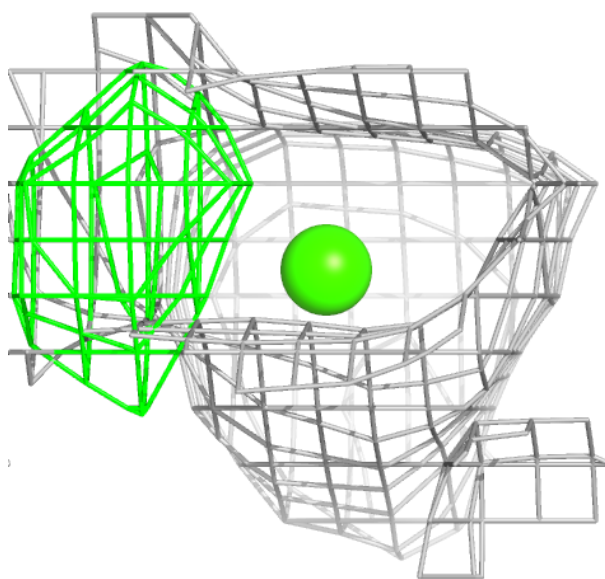
Electron density around CA M 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



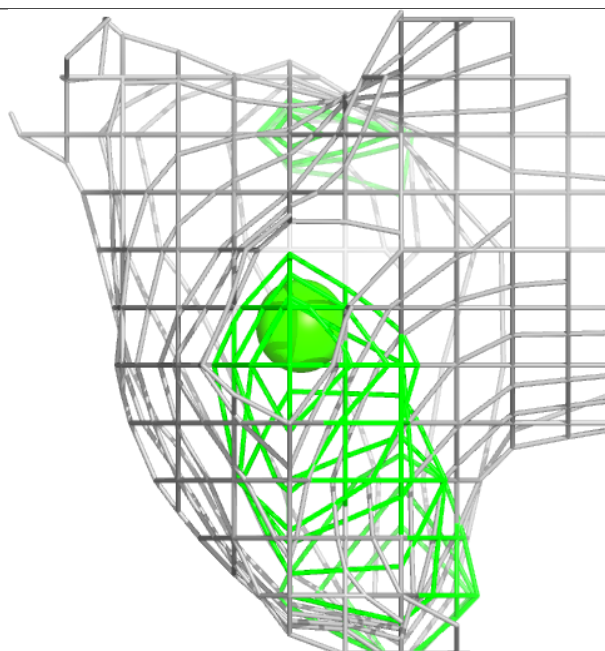
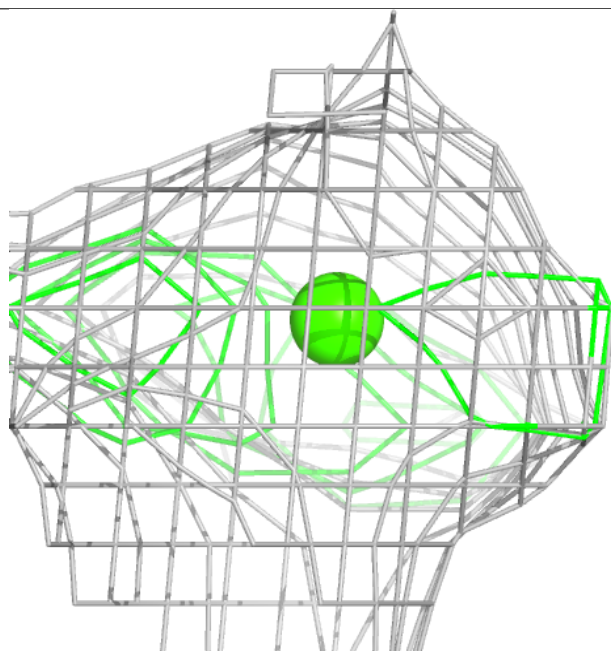
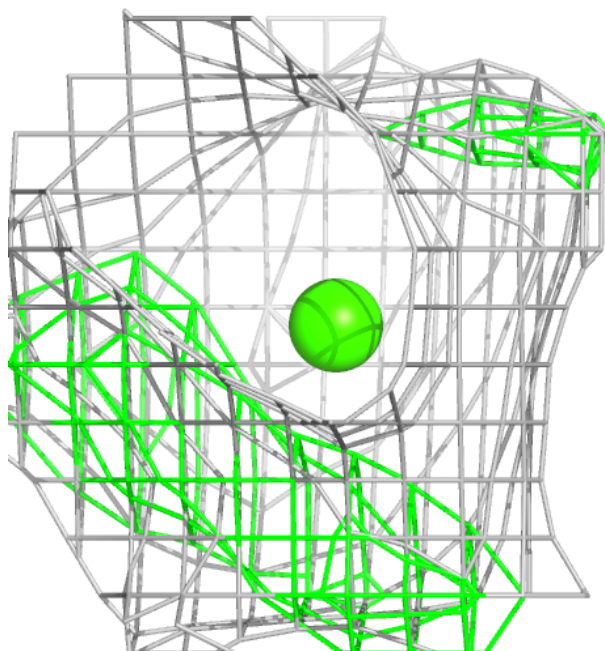
Electron density around CA Q 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



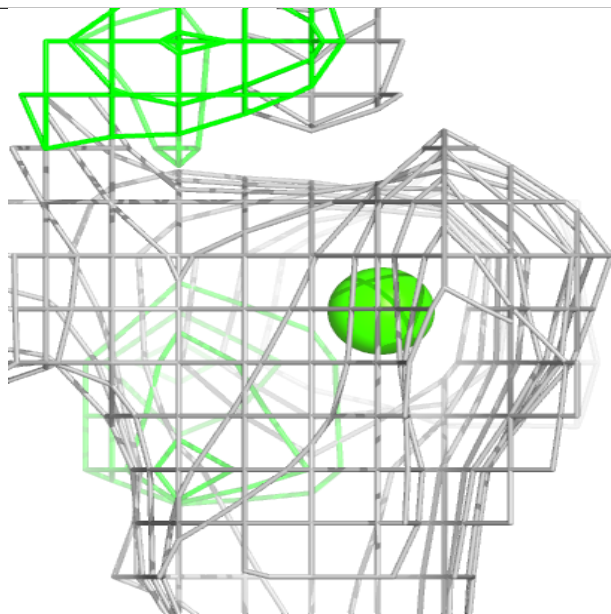
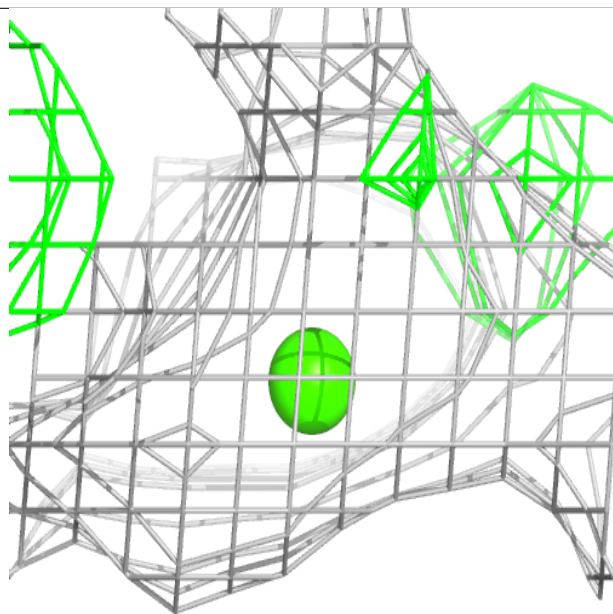
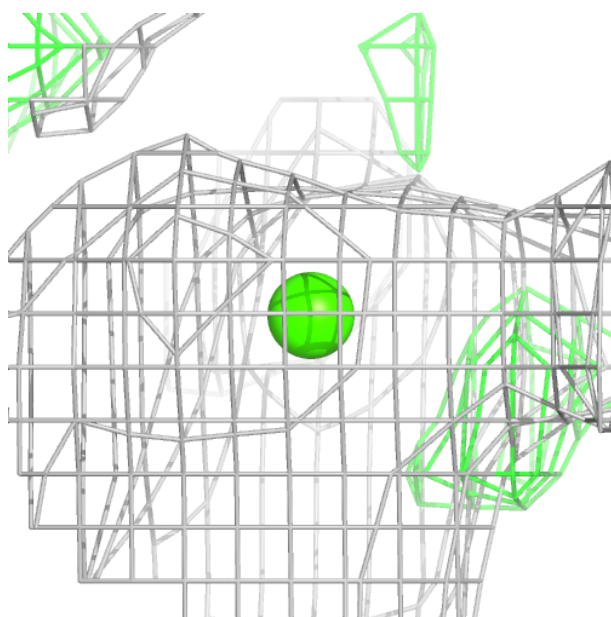
Electron density around CA E 204:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



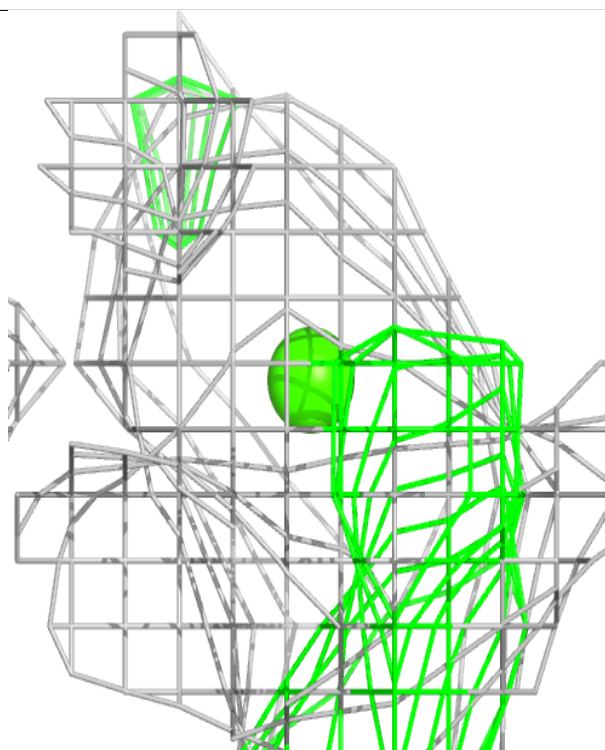
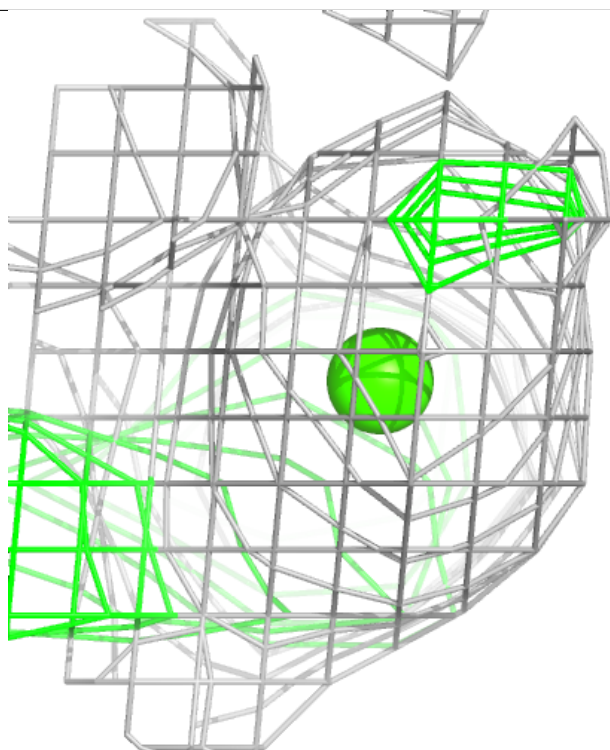
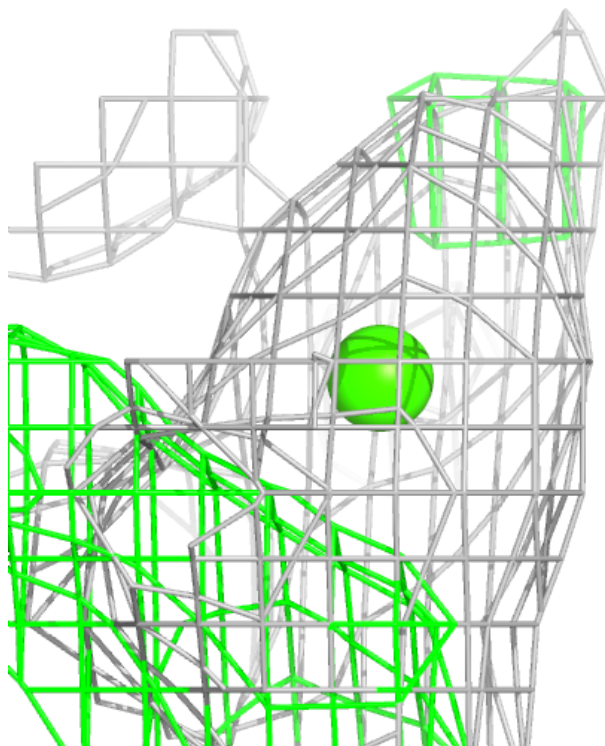
Electron density around CA b 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



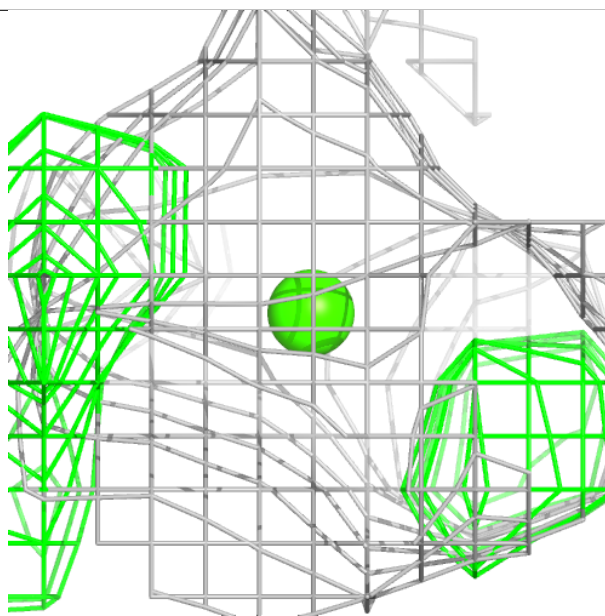
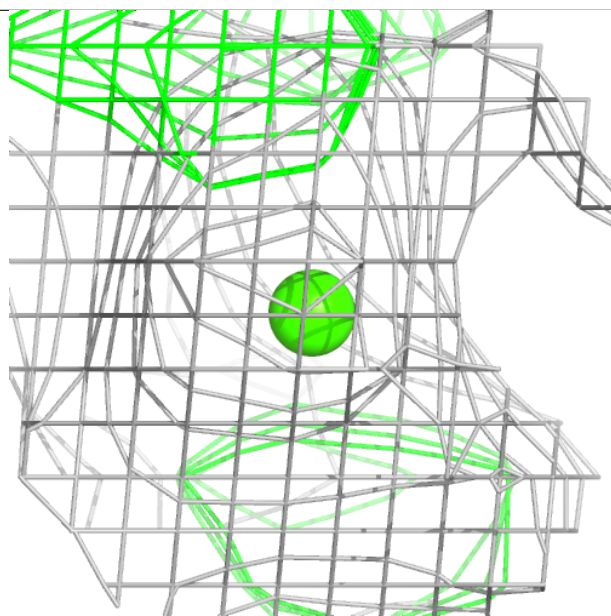
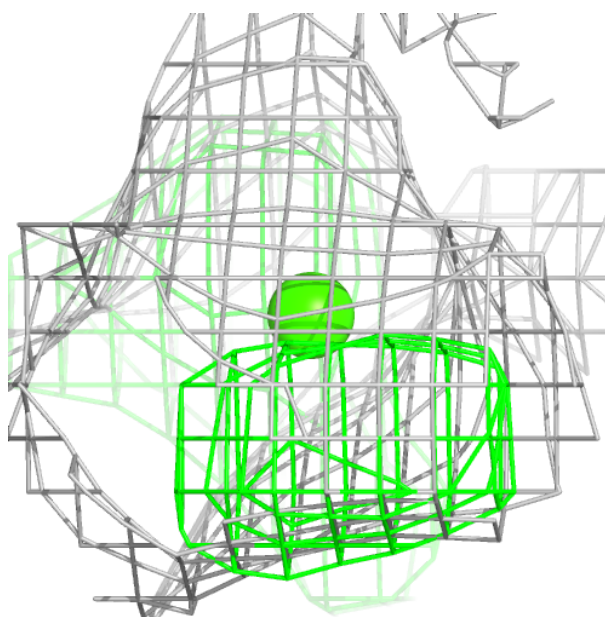
Electron density around CA I 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



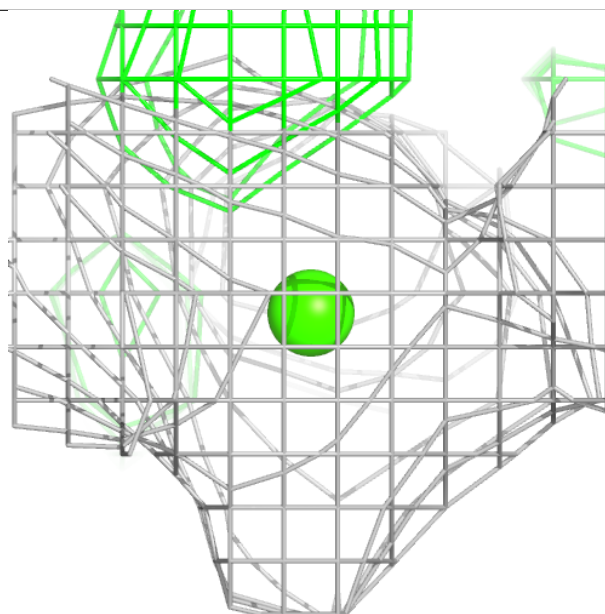
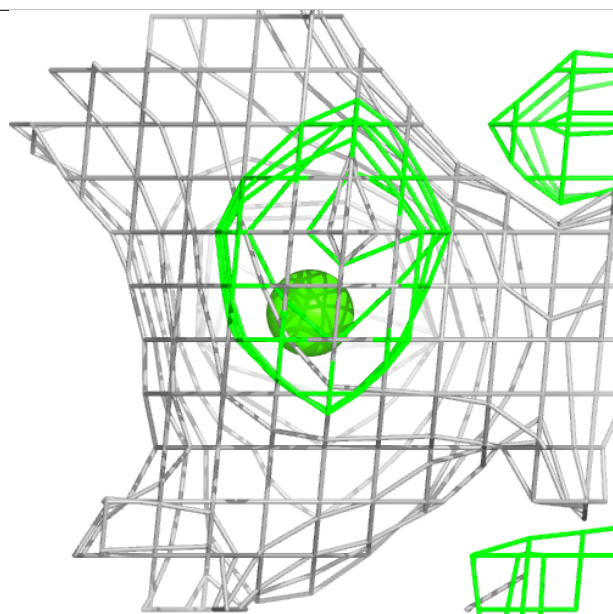
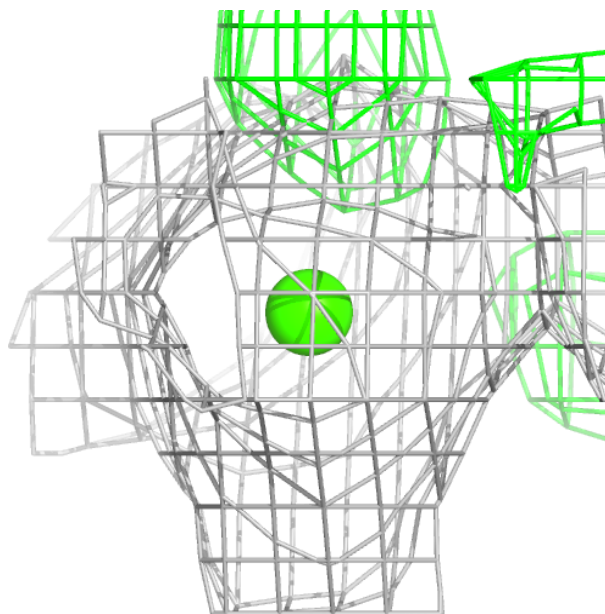
Electron density around CA U 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



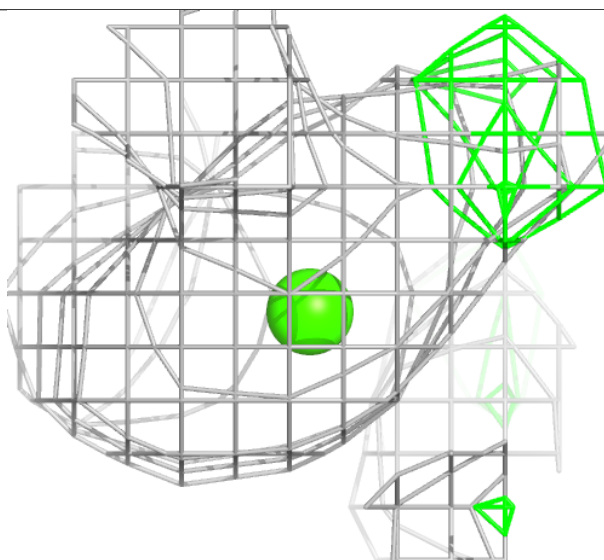
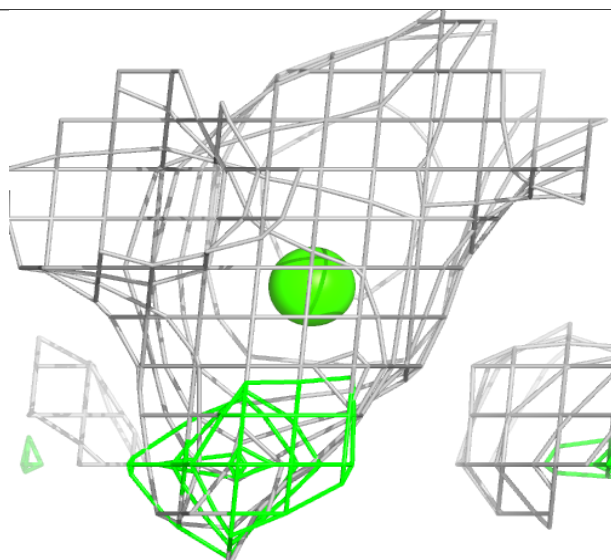
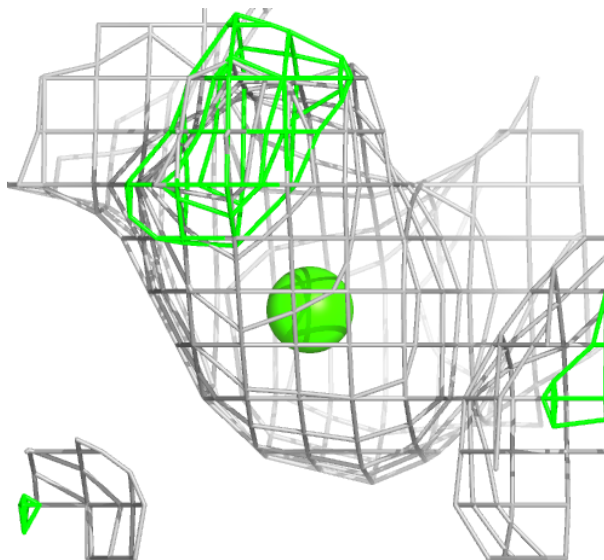
Electron density around CA J 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



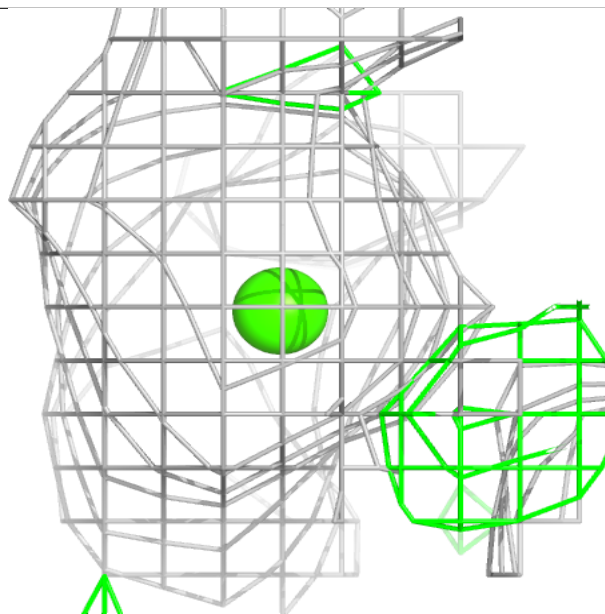
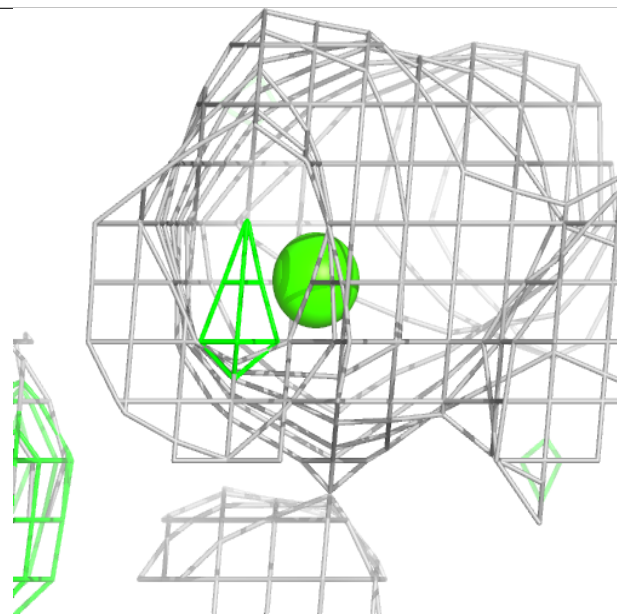
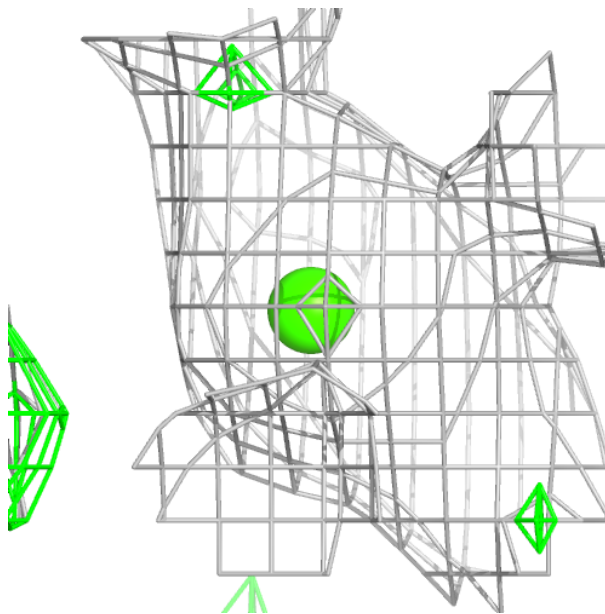
Electron density around CA a 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



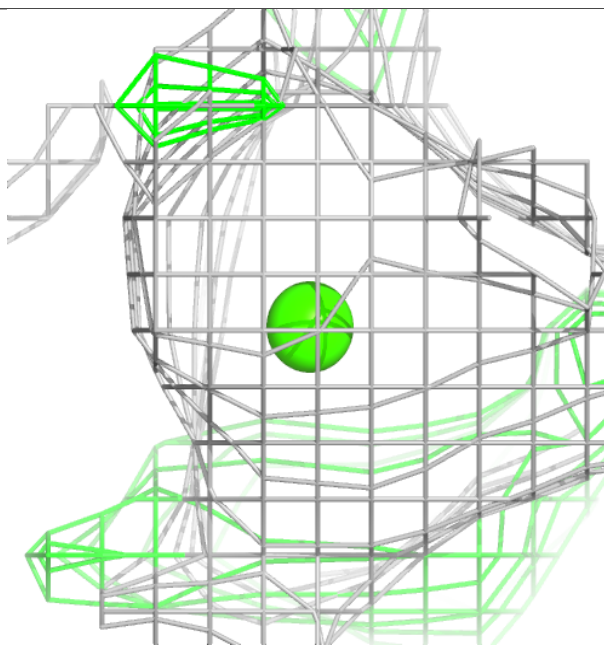
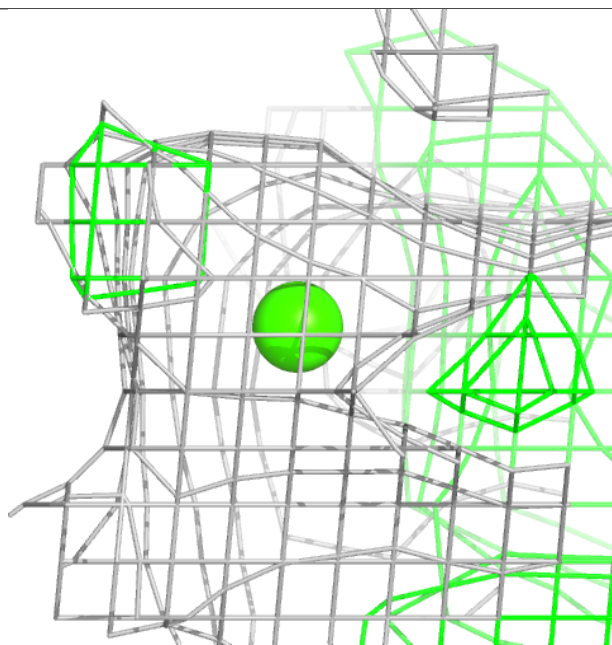
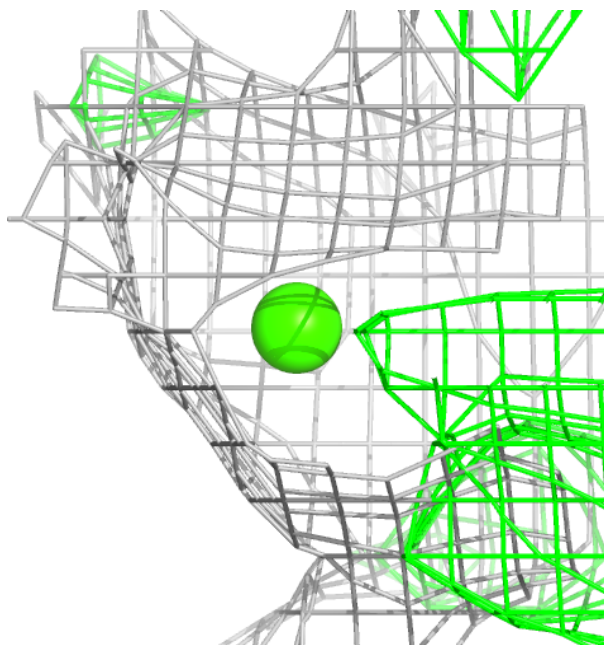
Electron density around CA K 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



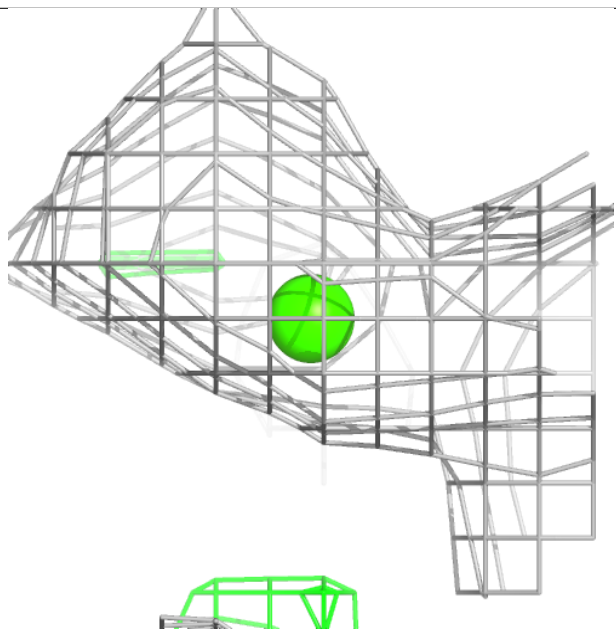
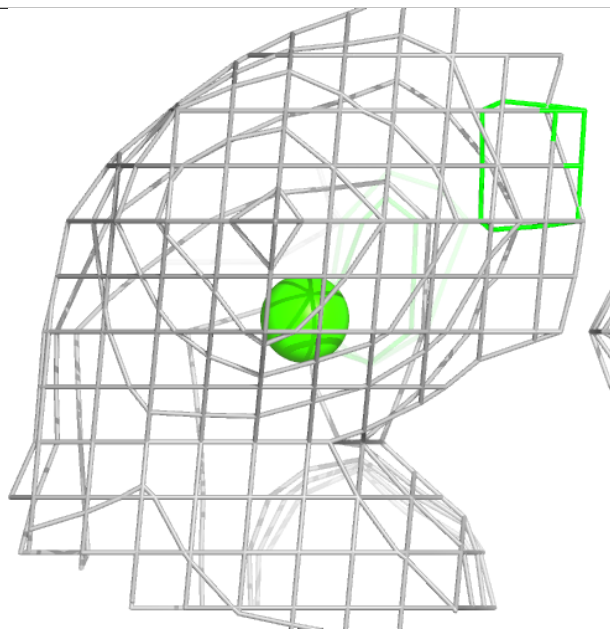
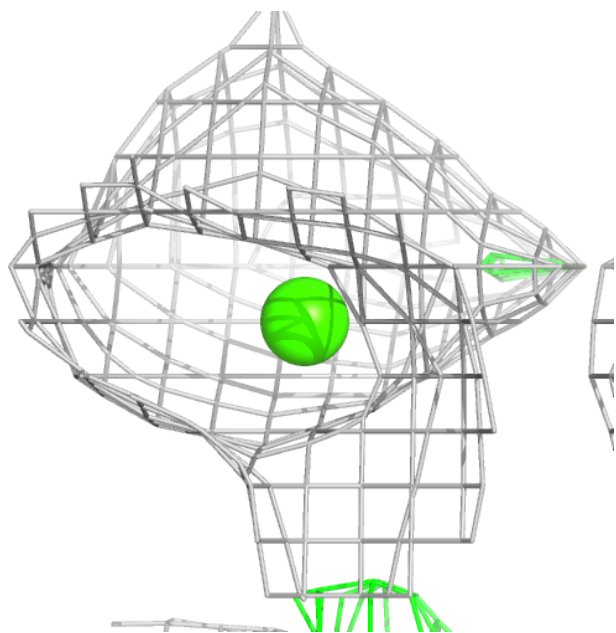
Electron density around CA E 203:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



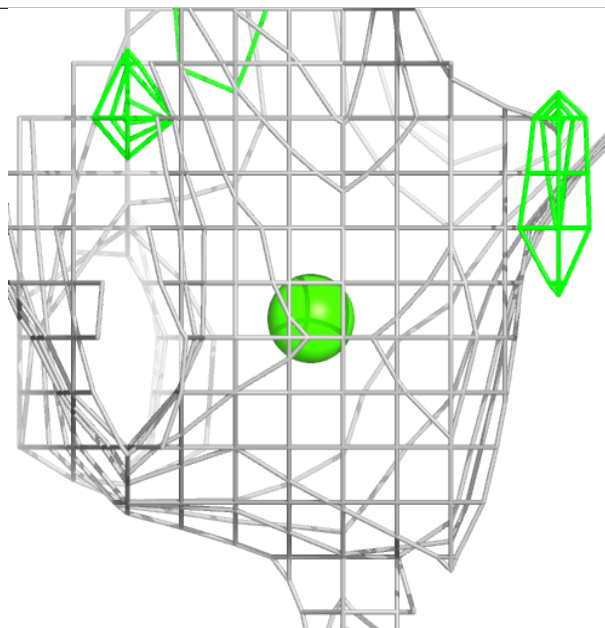
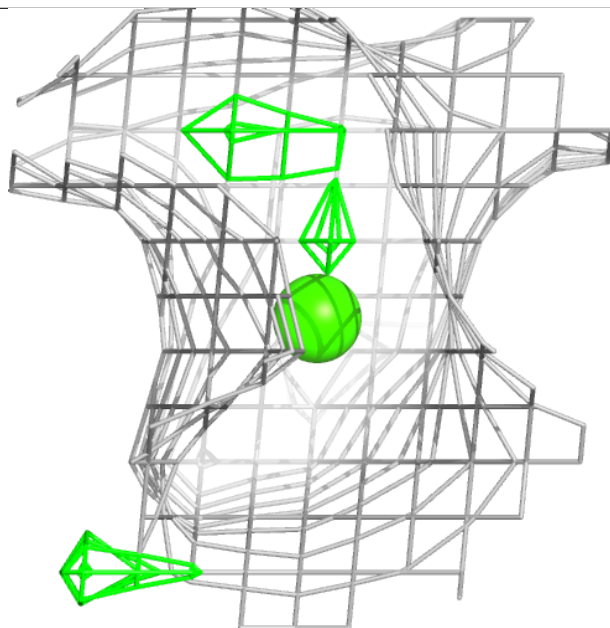
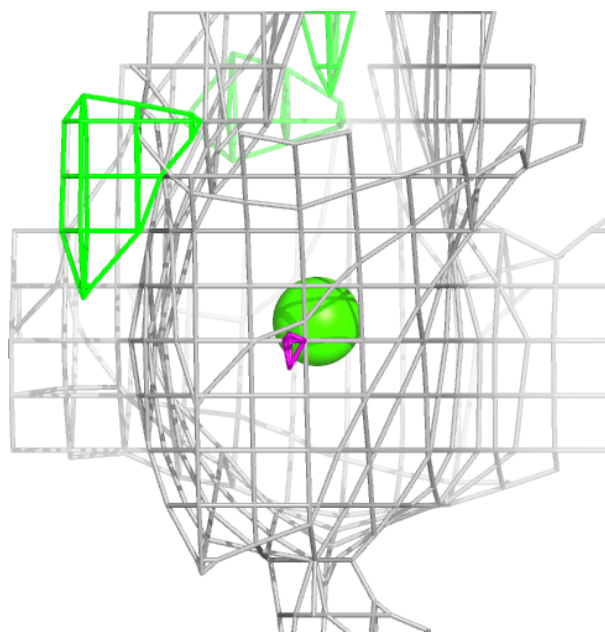
Electron density around CA R 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



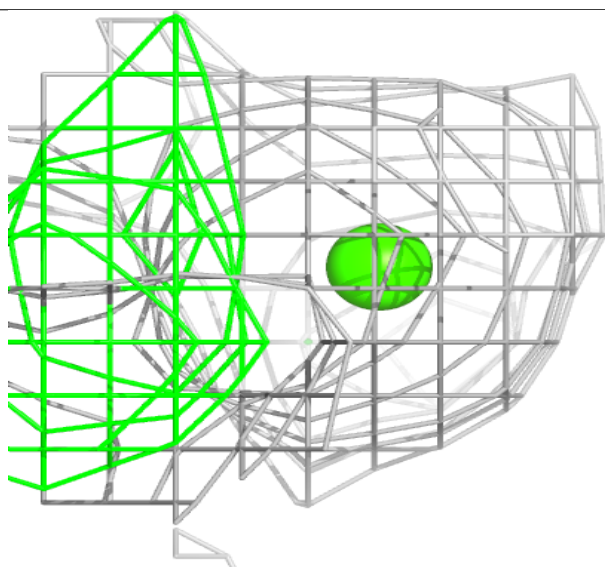
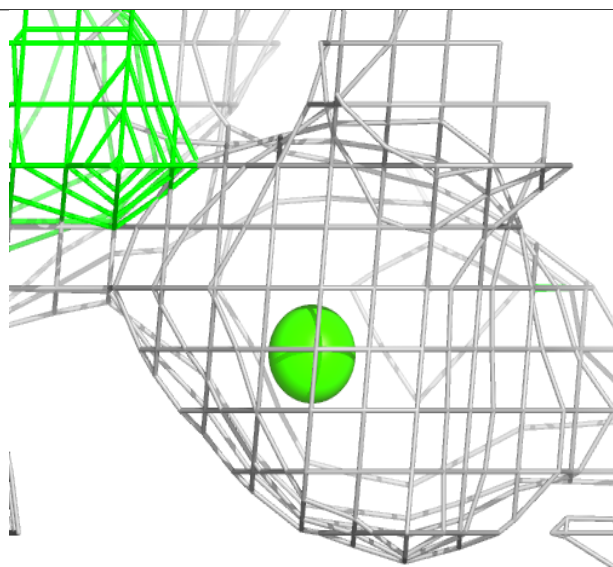
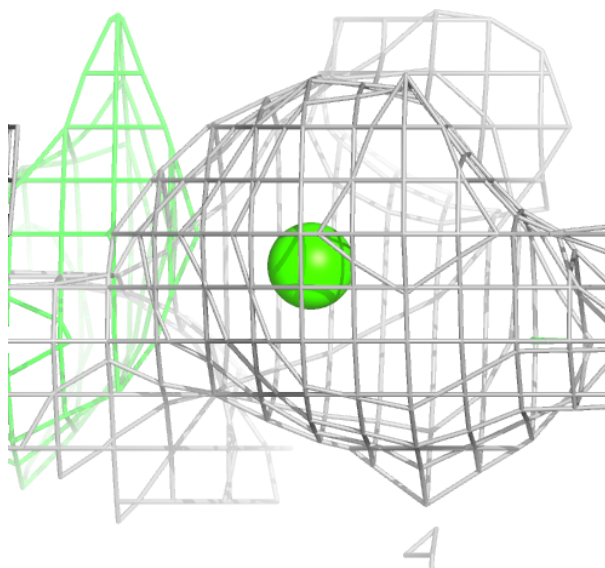
Electron density around CA O 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



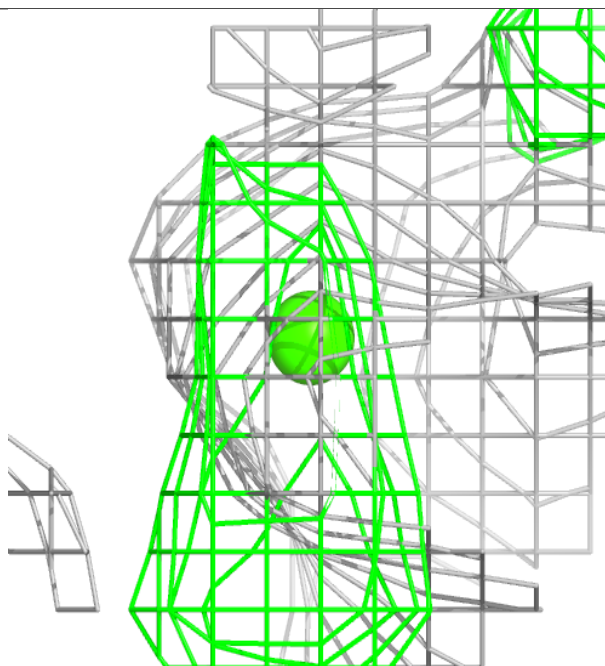
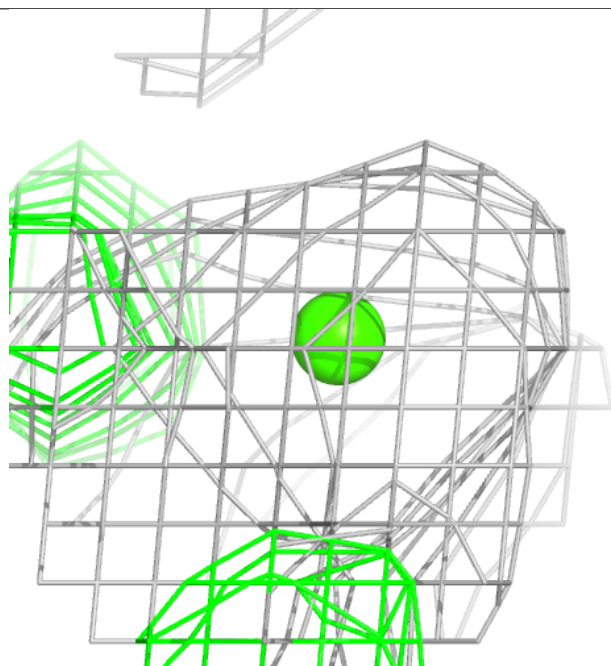
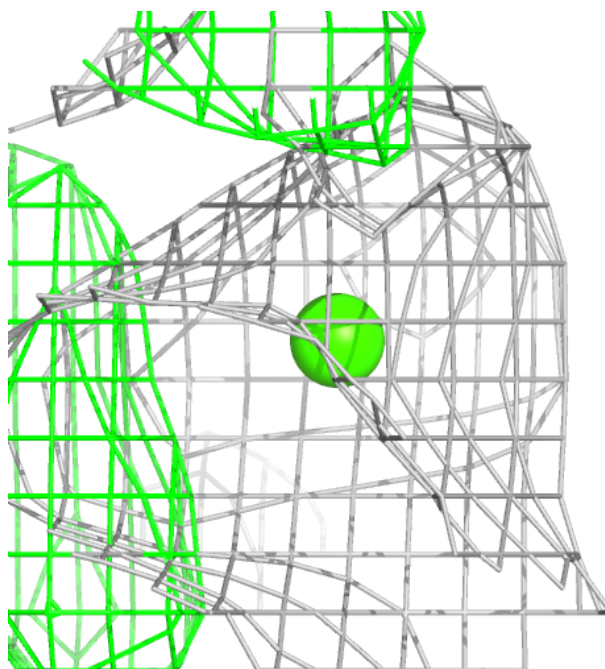
Electron density around CA K 203:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



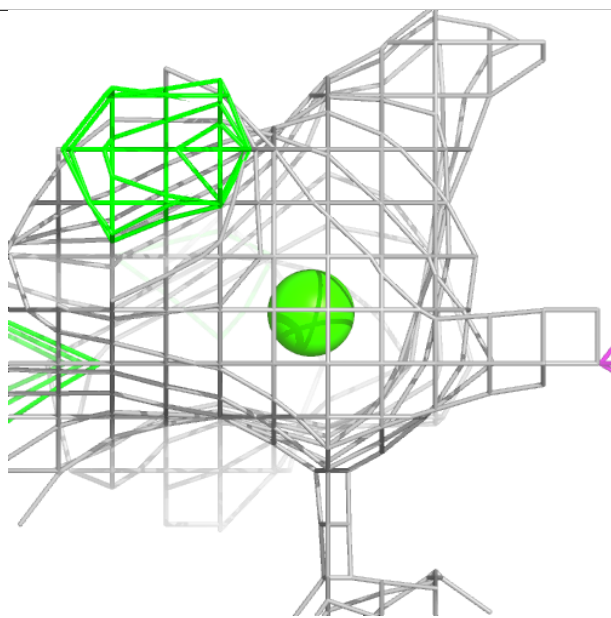
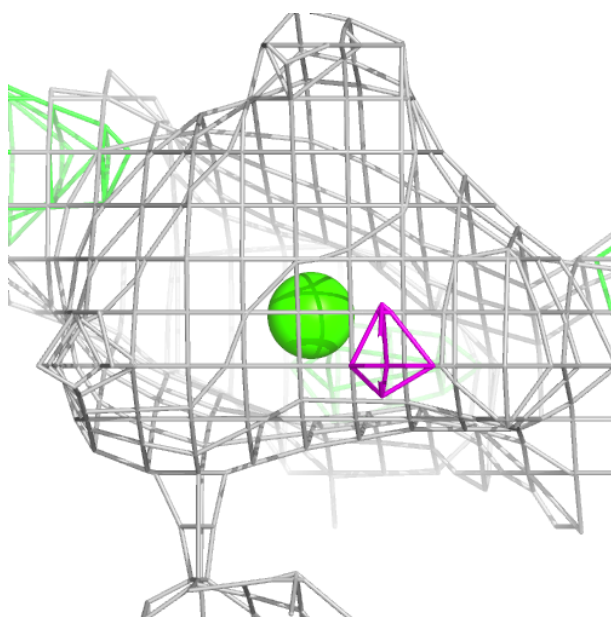
Electron density around CA G 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



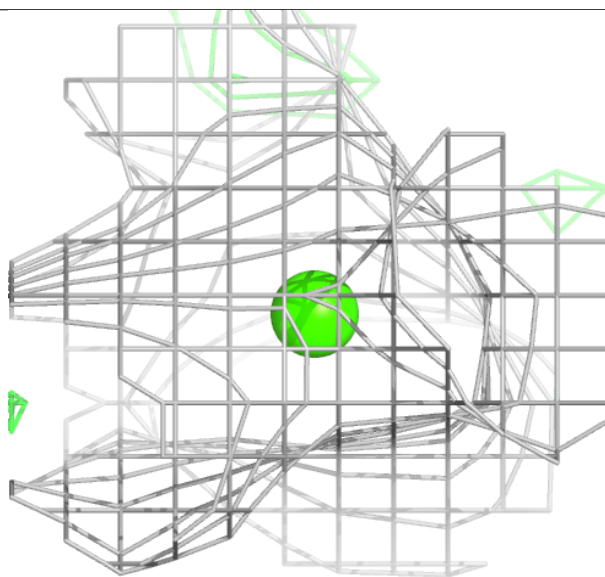
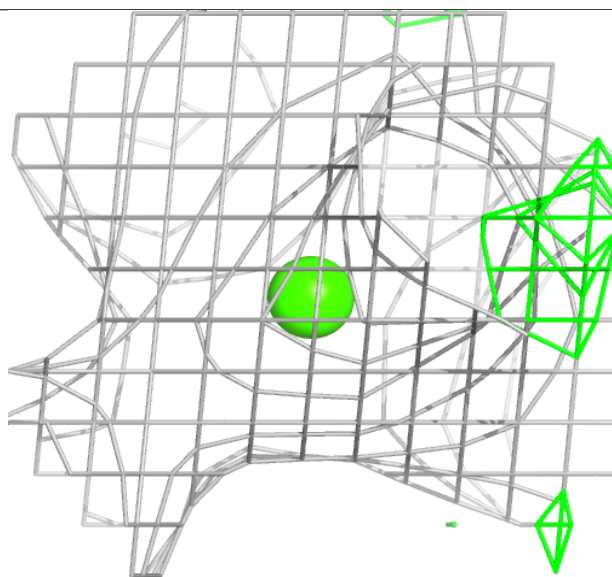
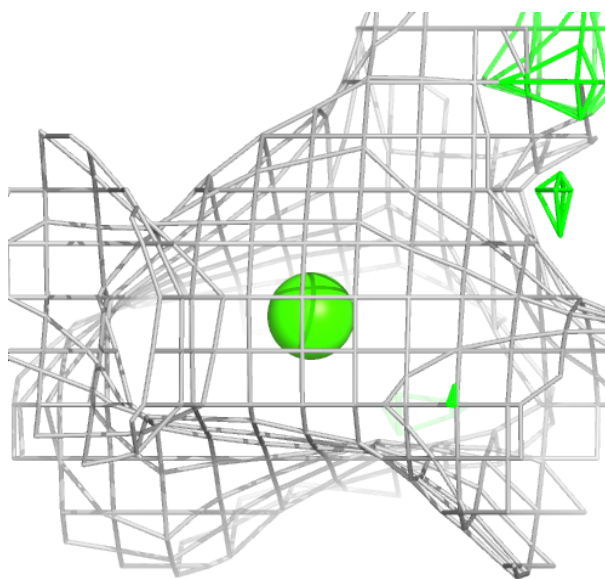
Electron density around CA F 203:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



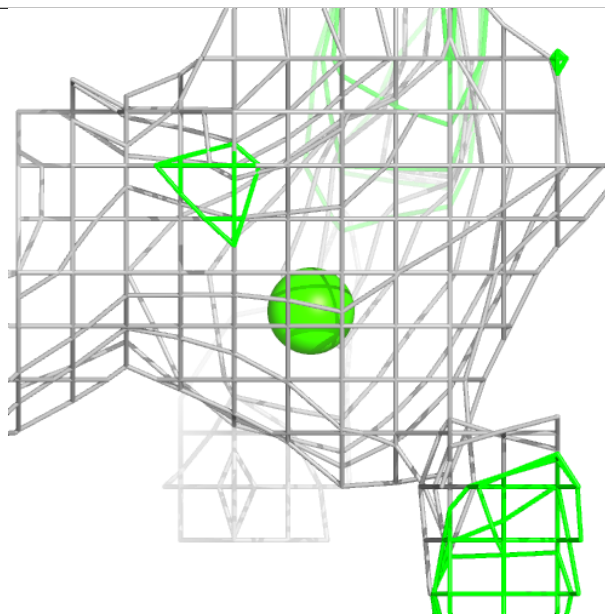
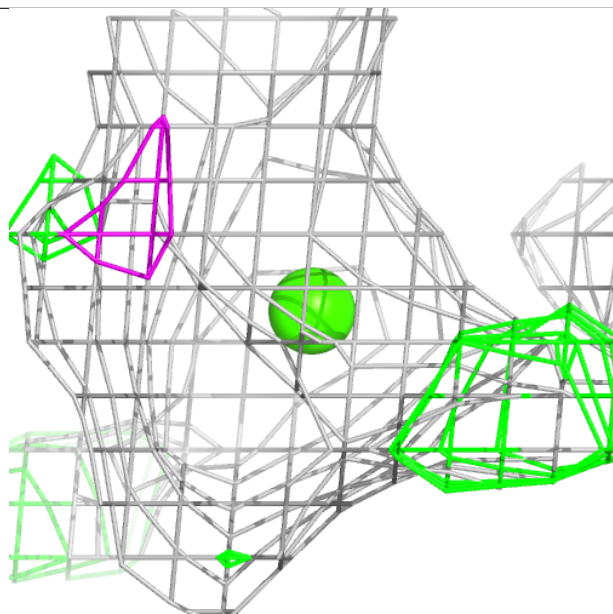
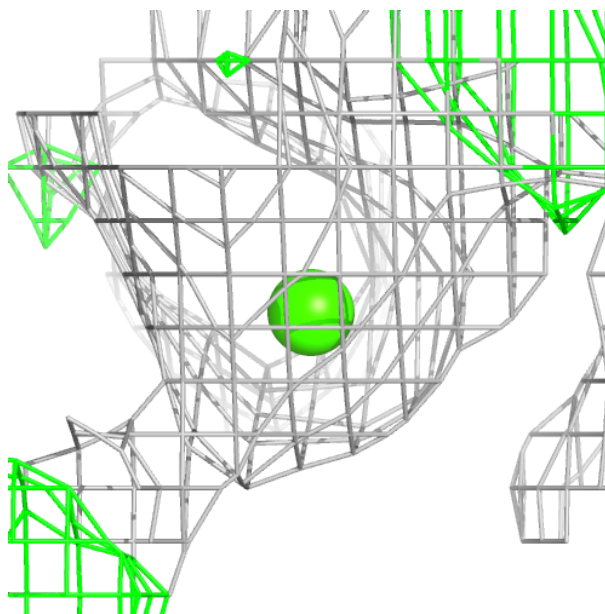
Electron density around CA F 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



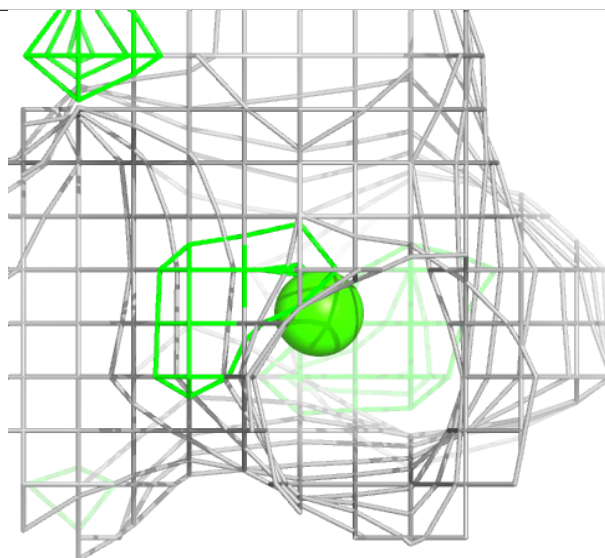
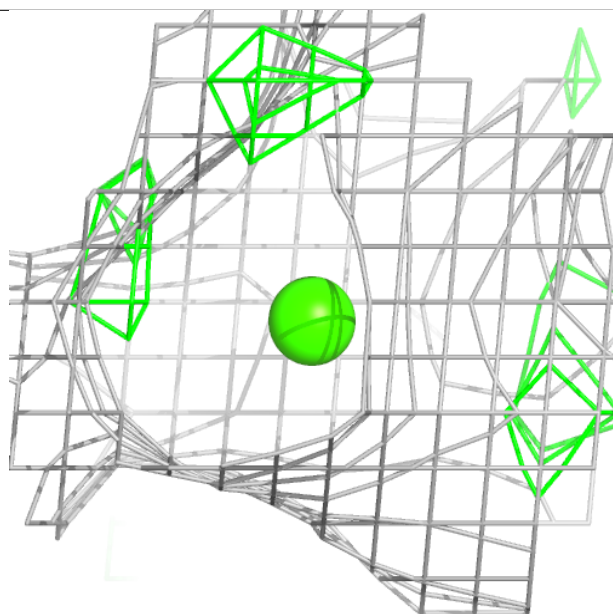
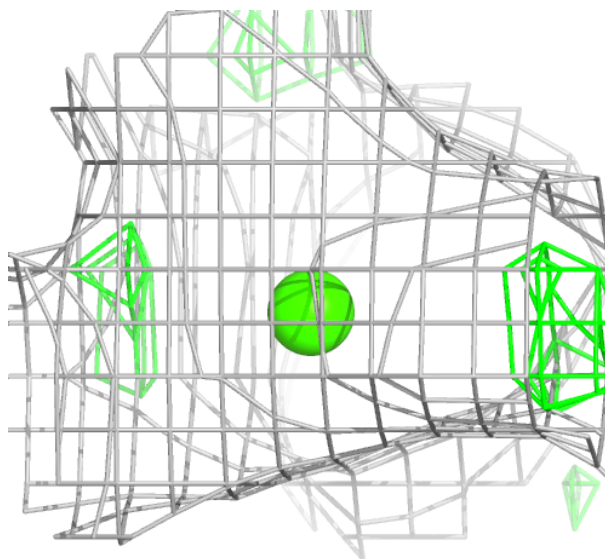
Electron density around CA Q 203:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



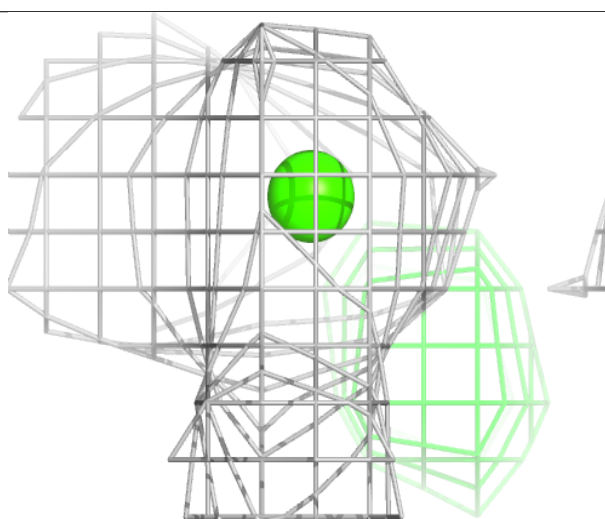
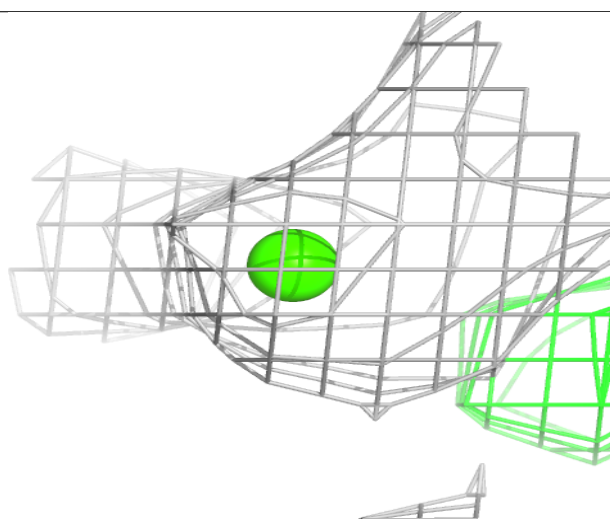
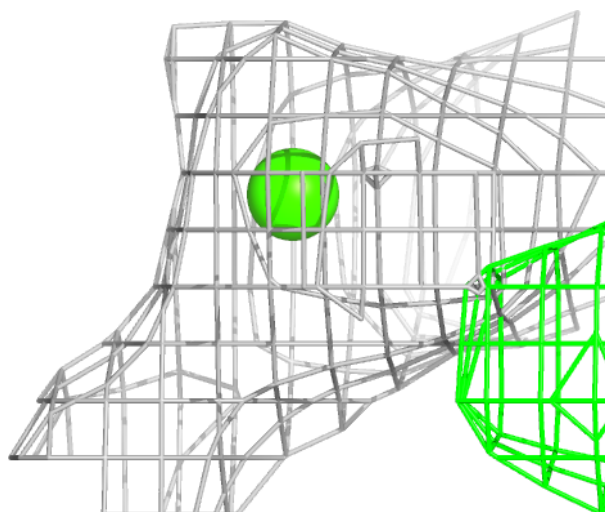
Electron density around CA H 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



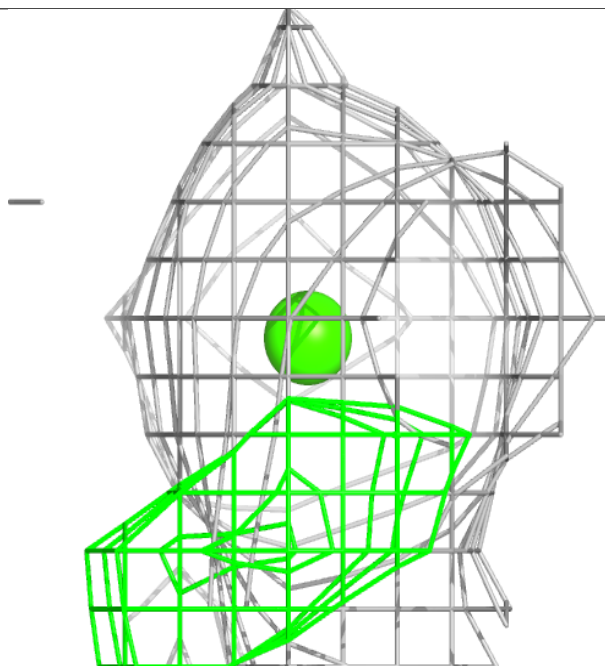
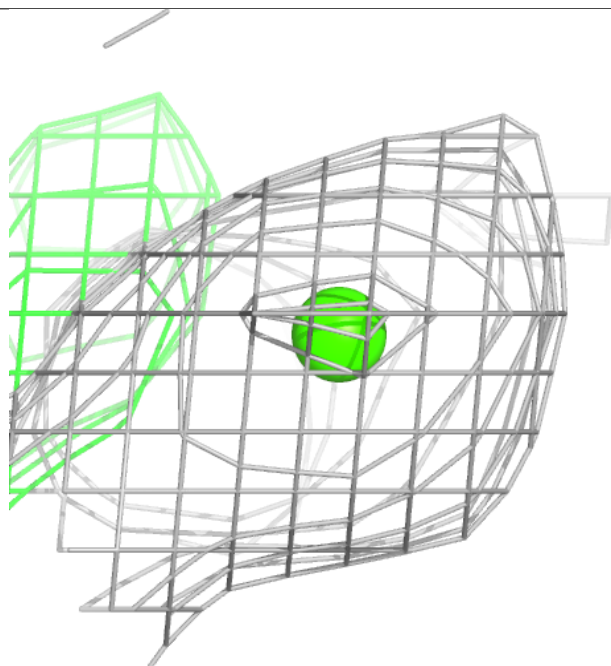
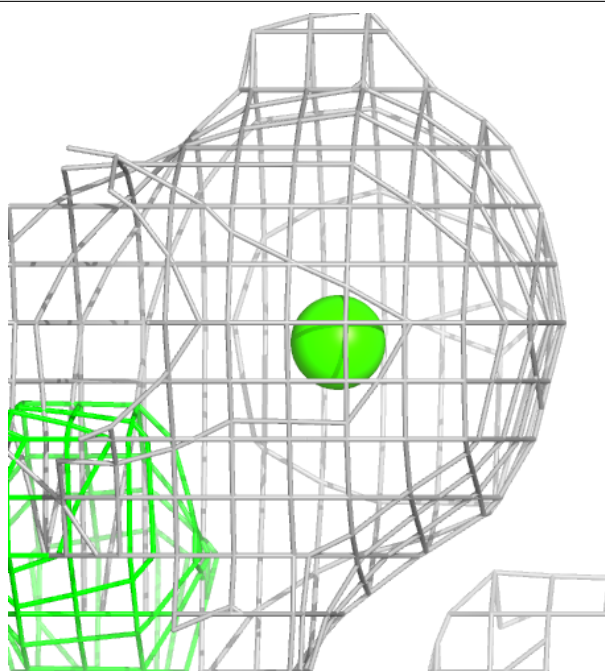
Electron density around CA c 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



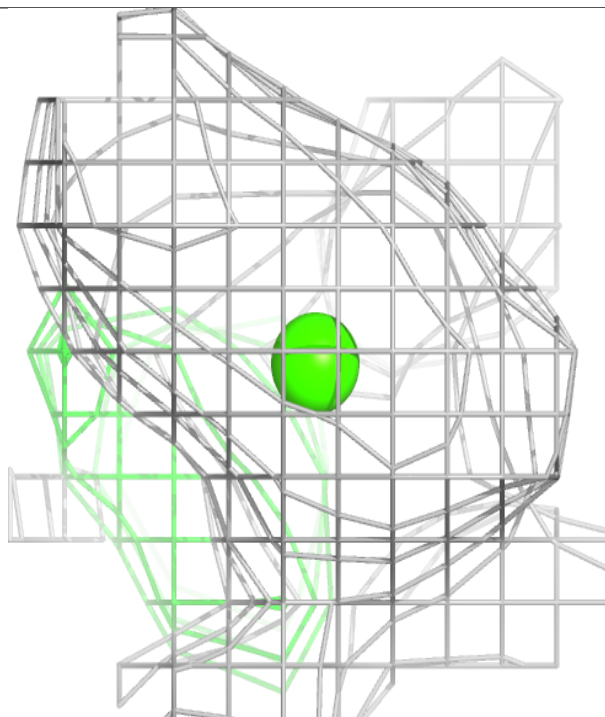
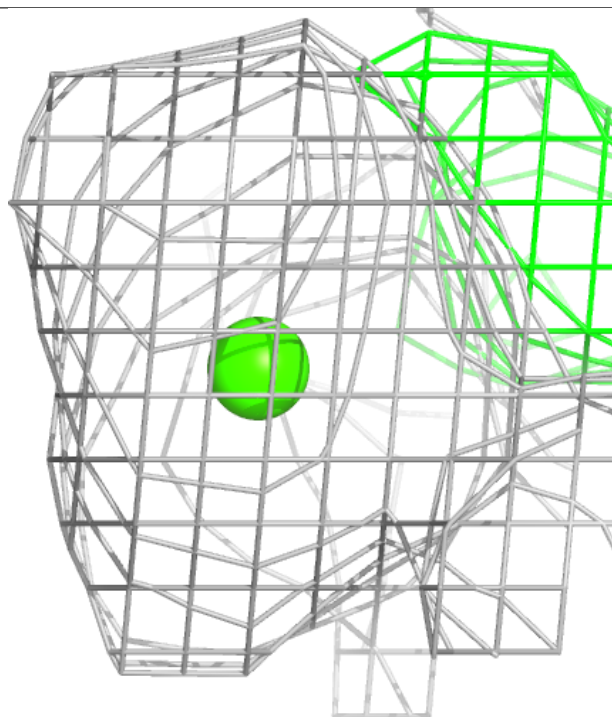
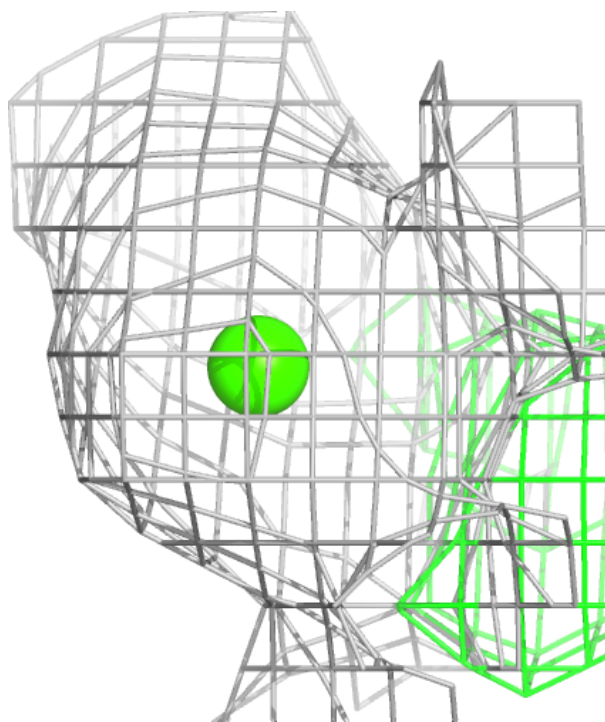
Electron density around CA P 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



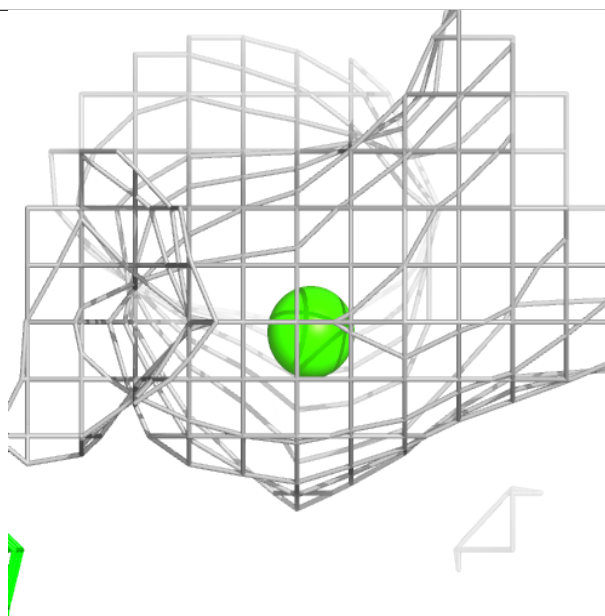
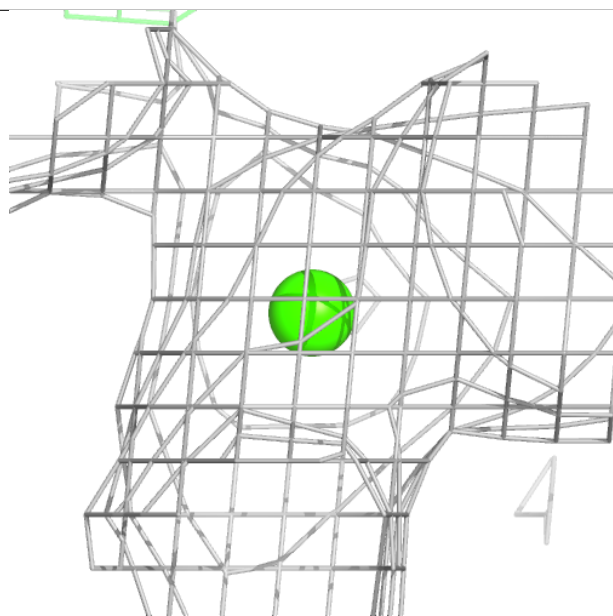
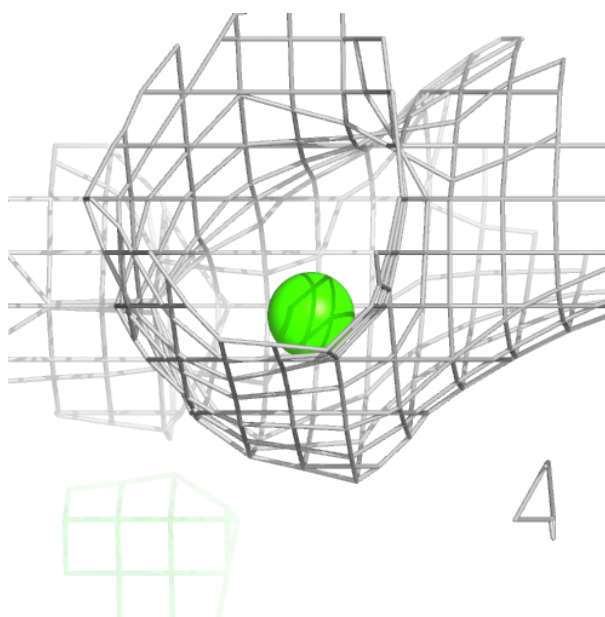
Electron density around CA a 203:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



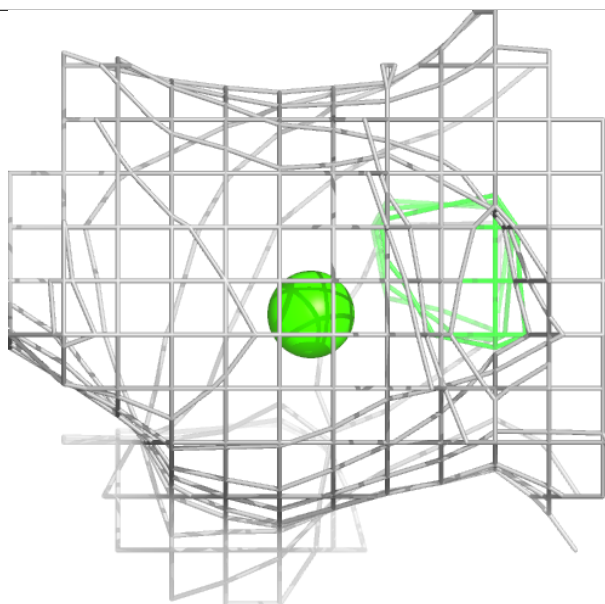
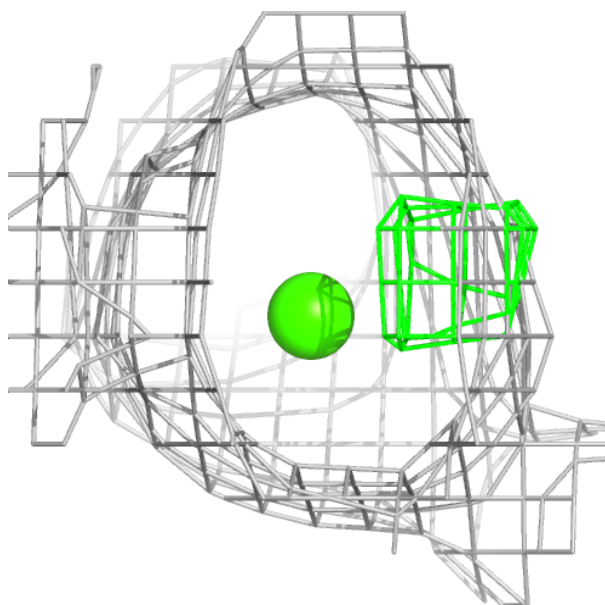
Electron density around CA A 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



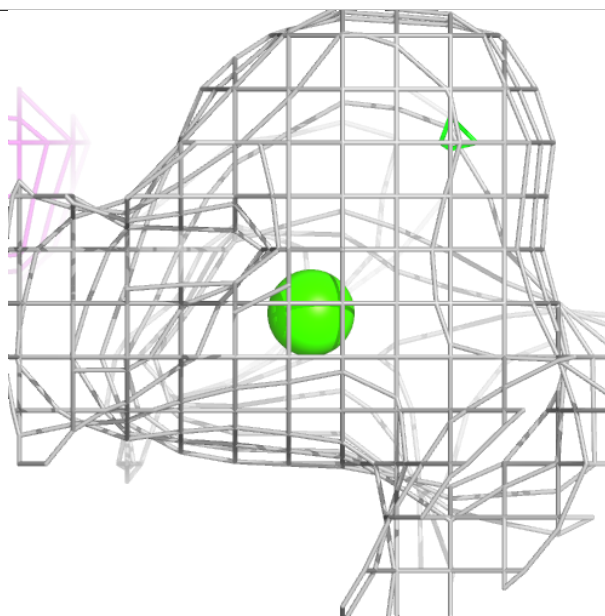
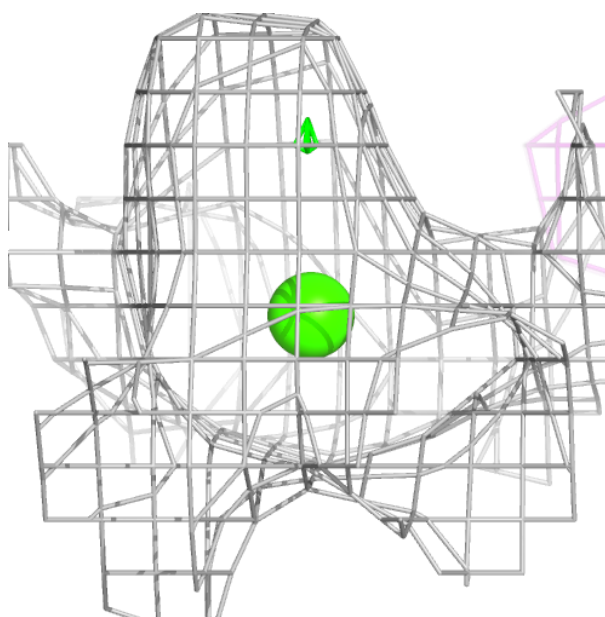
Electron density around CA Y 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



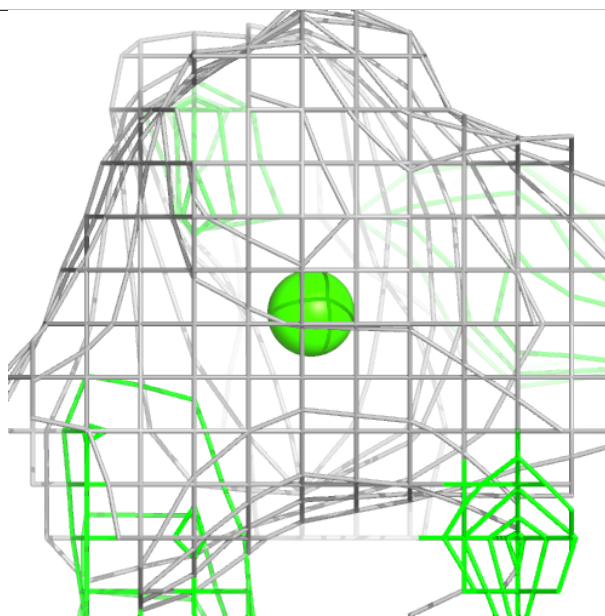
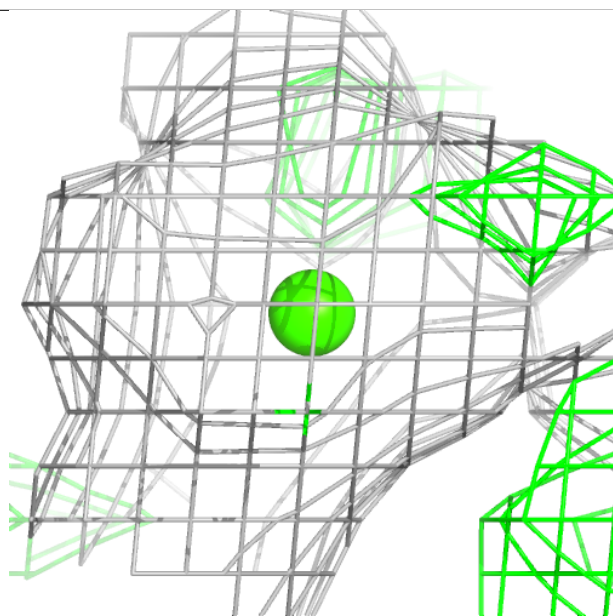
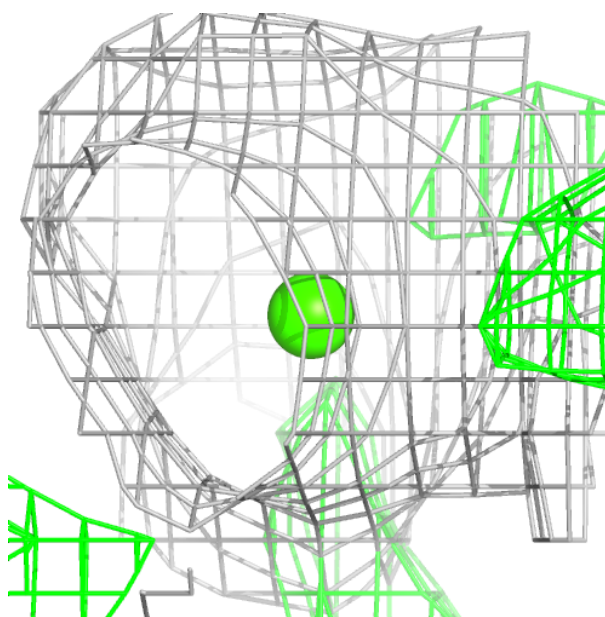
Electron density around CA T 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



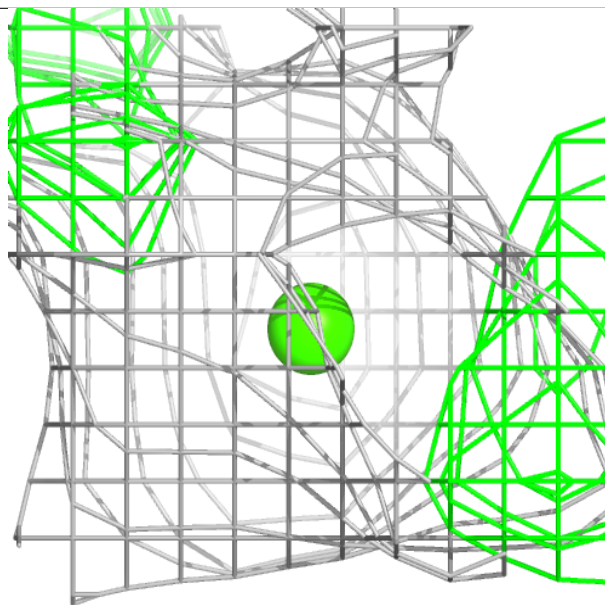
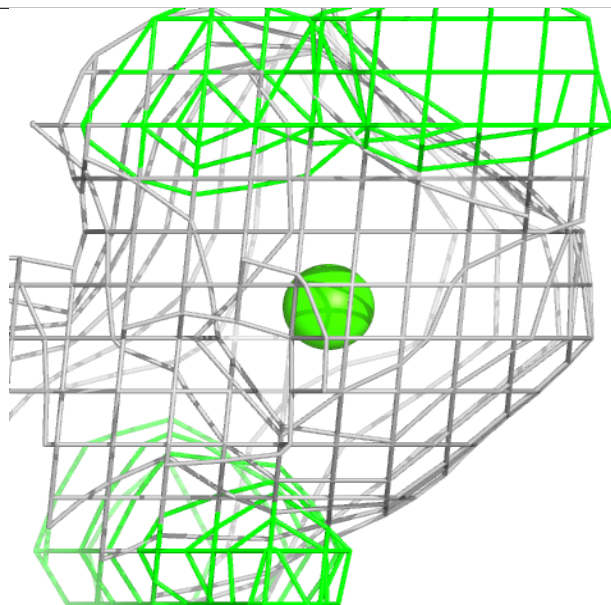
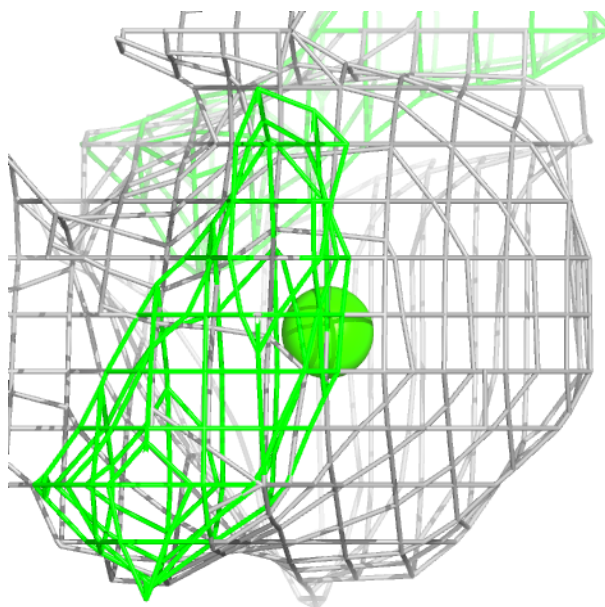
Electron density around CA d 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



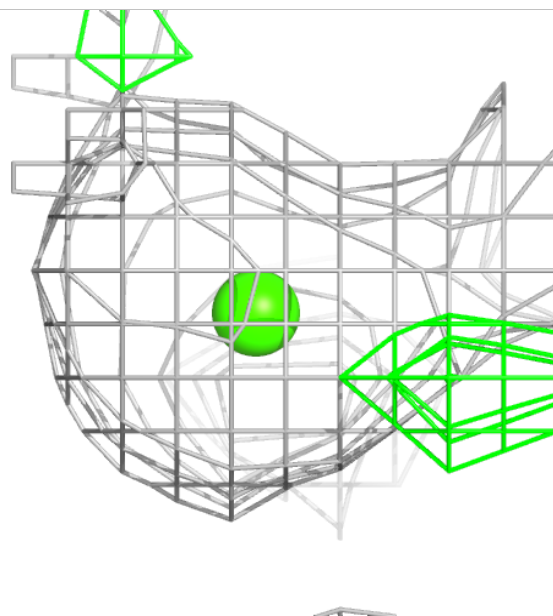
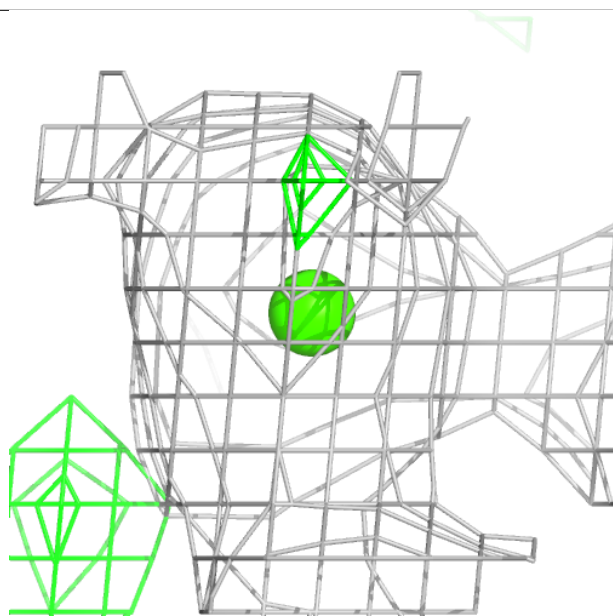
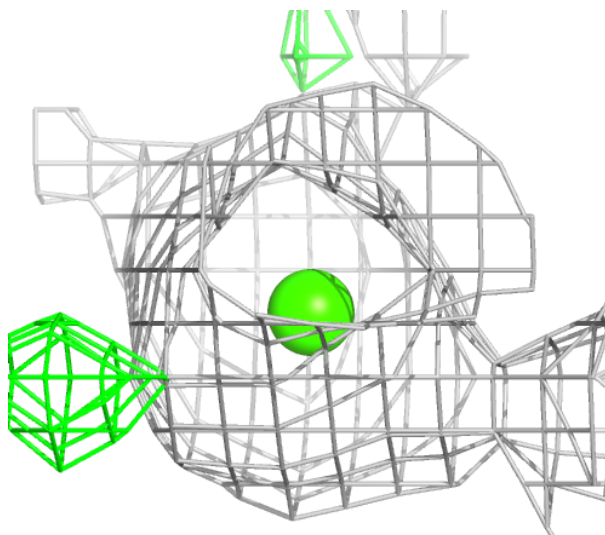
Electron density around CA Z 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



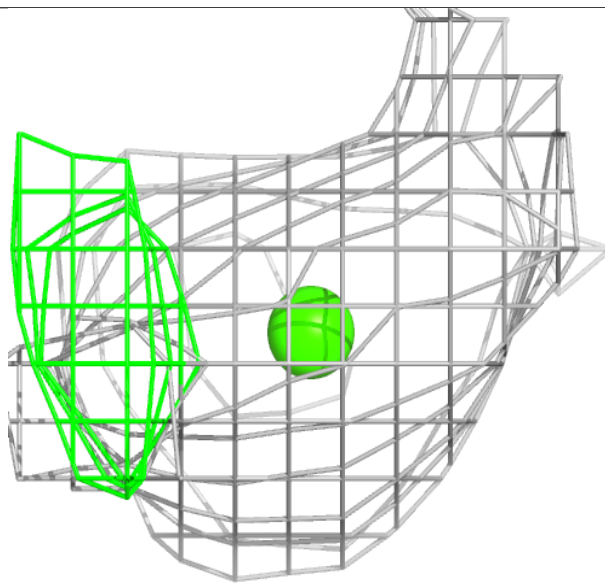
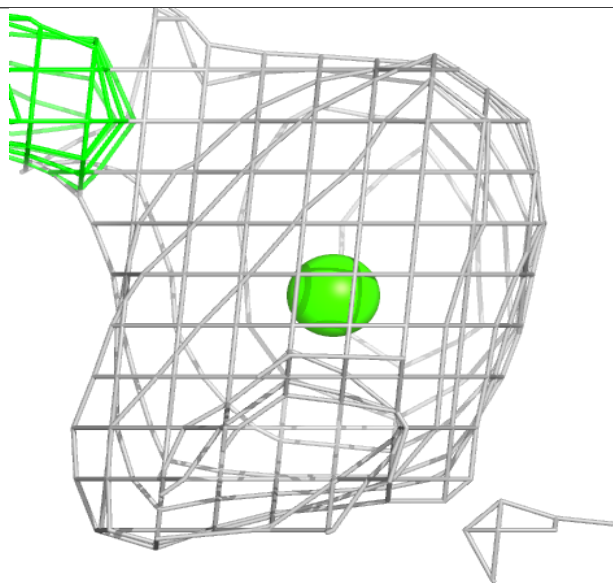
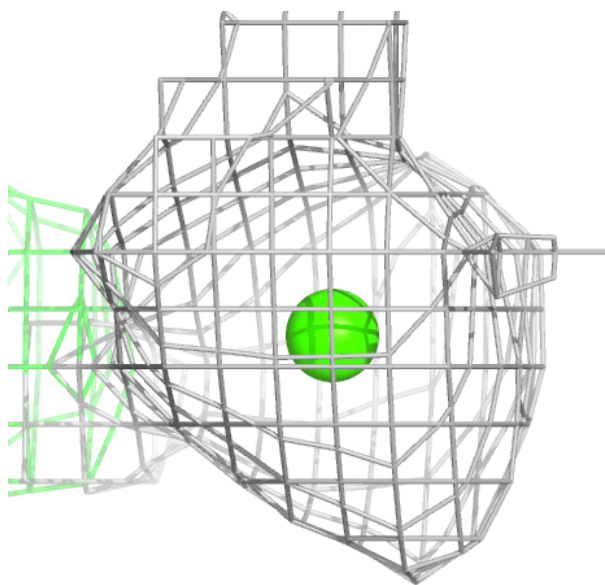
Electron density around CA E 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



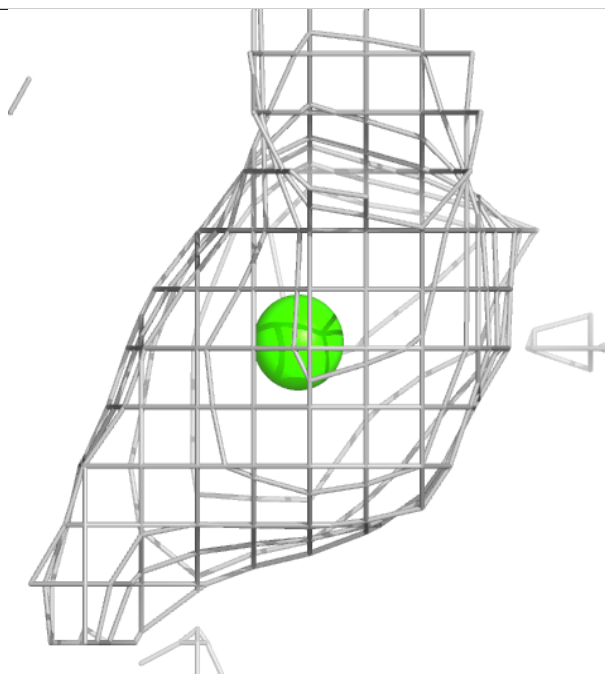
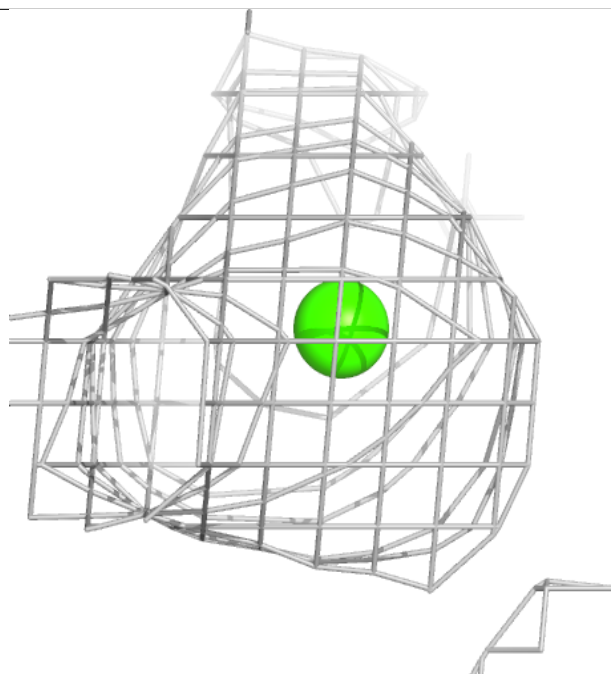
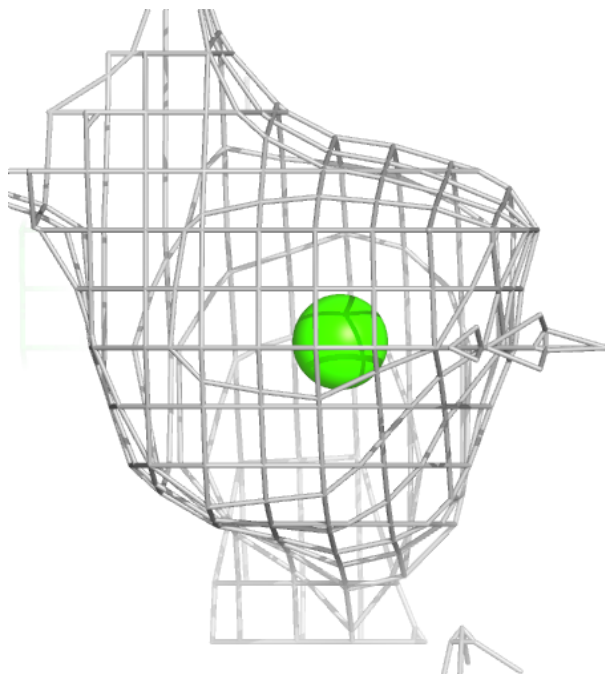
Electron density around CA V 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



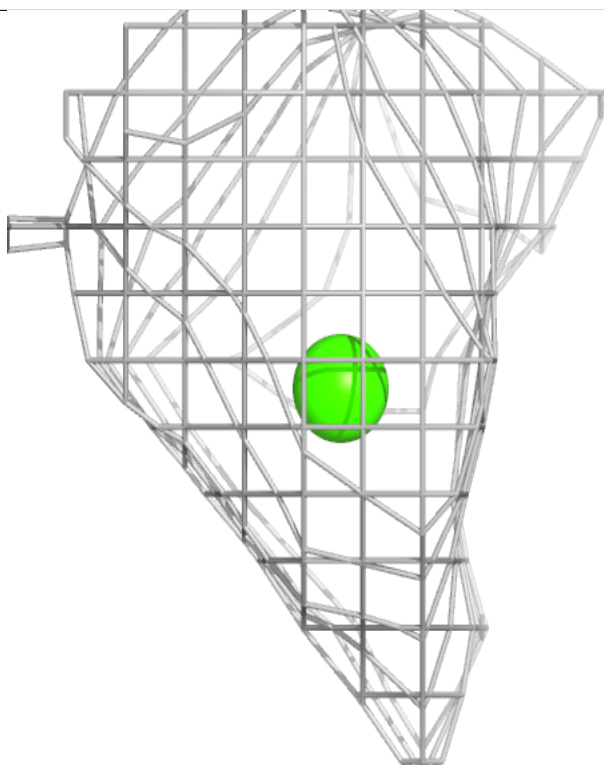
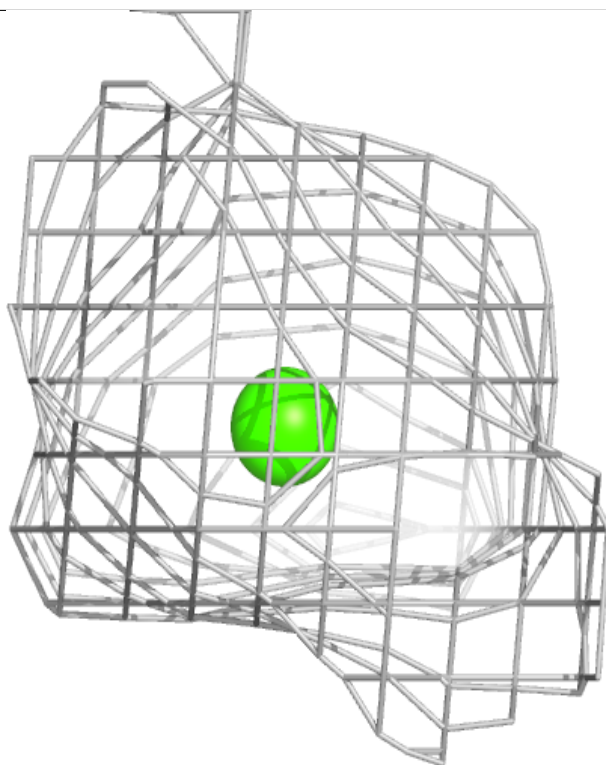
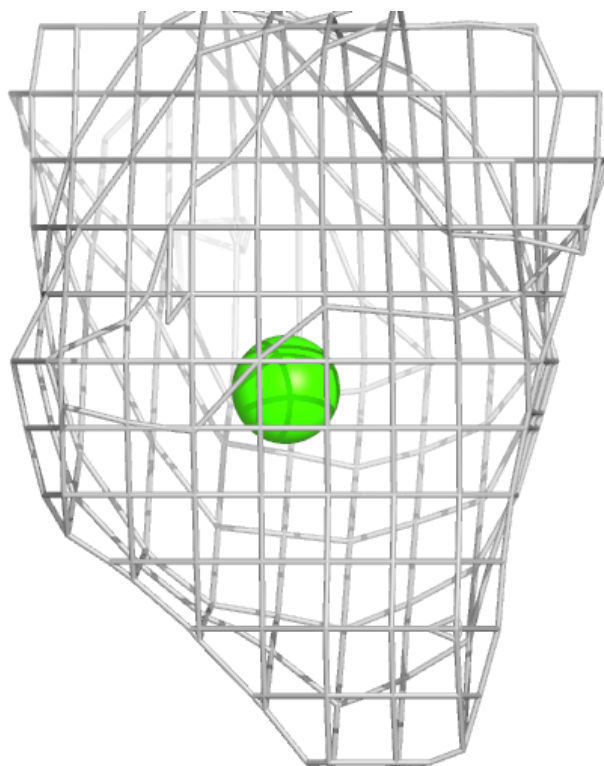
Electron density around CA B 204:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



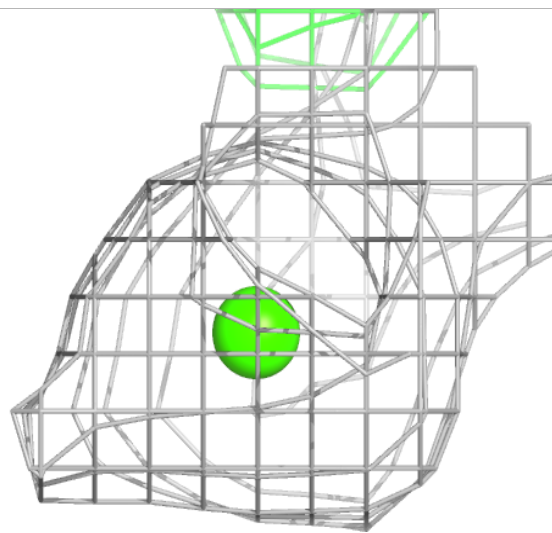
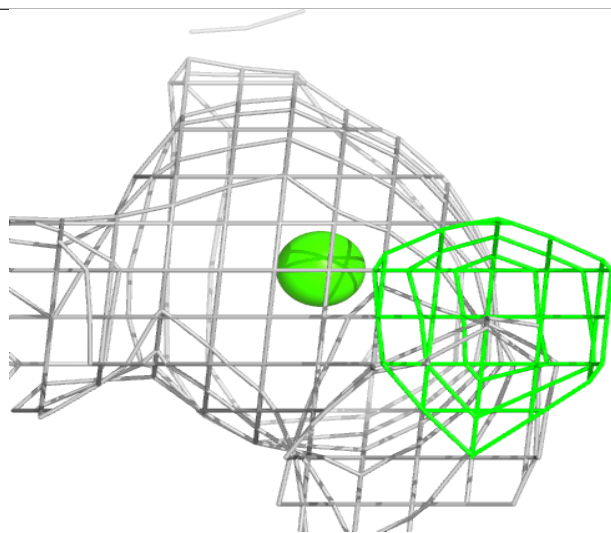
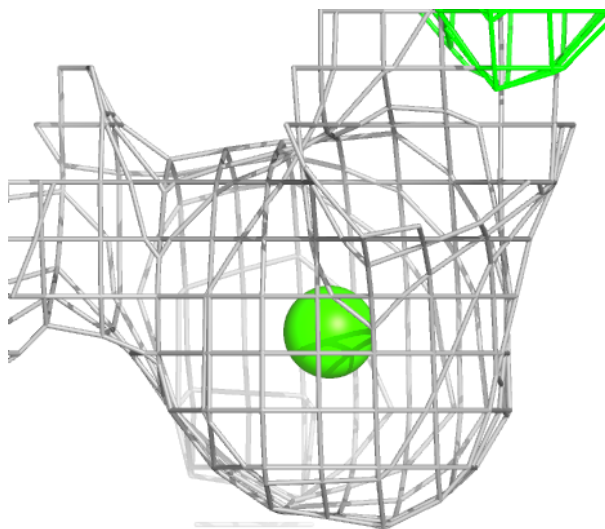
Electron density around CA I 203:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



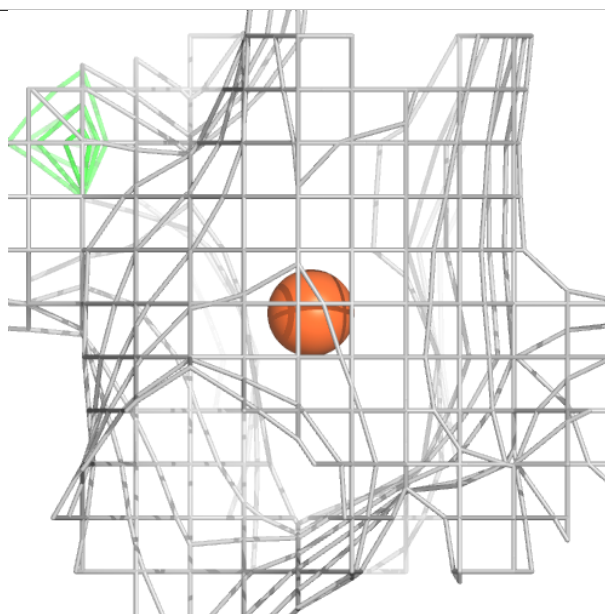
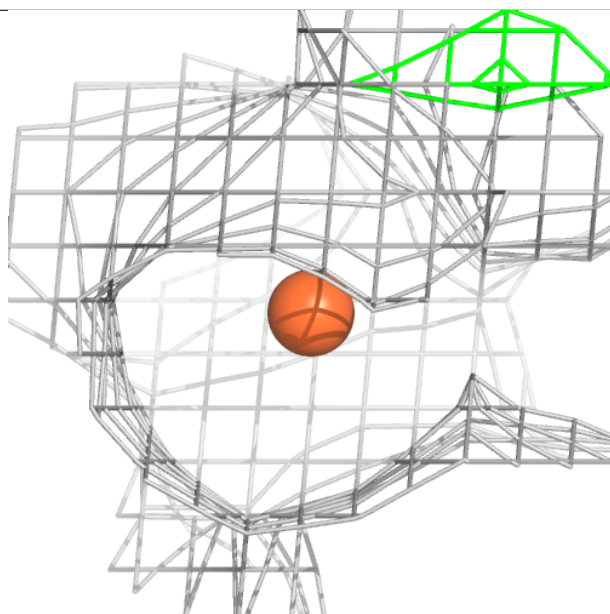
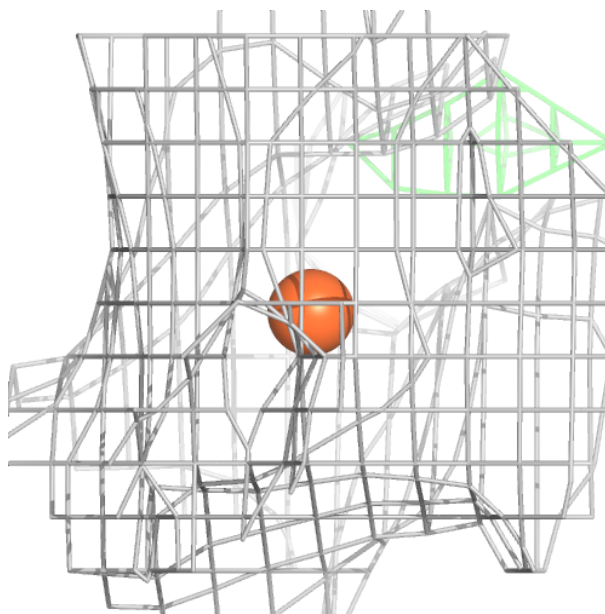
Electron density around CA L 202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



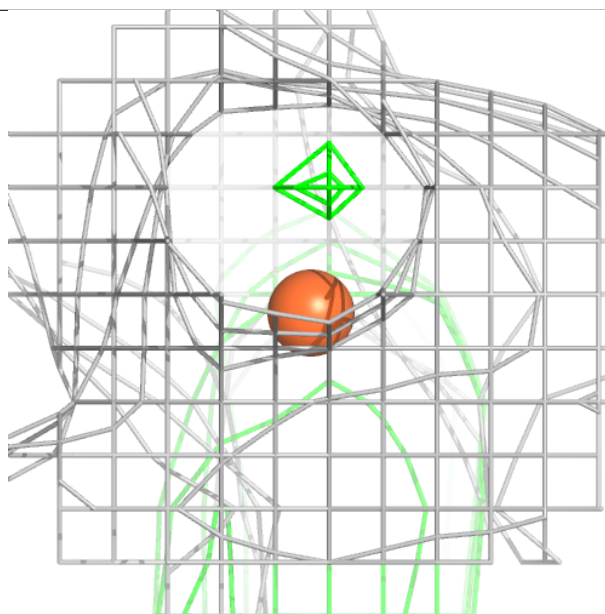
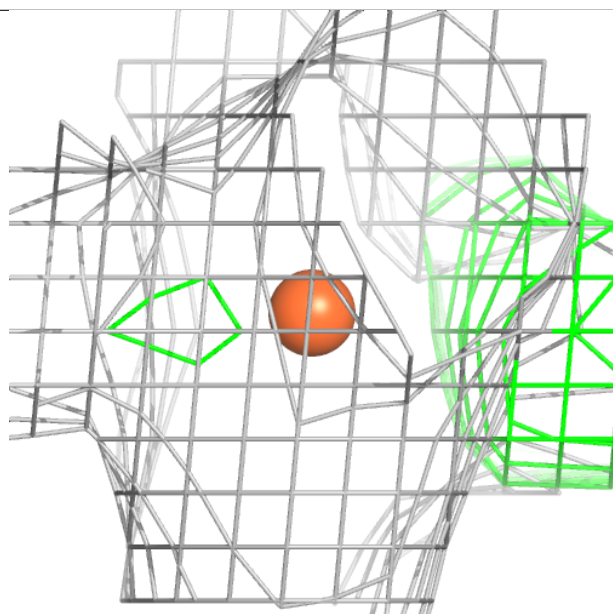
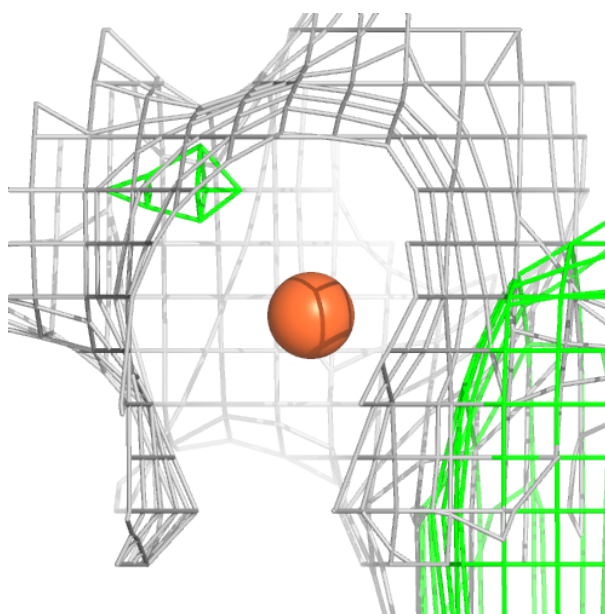
Electron density around FE N 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



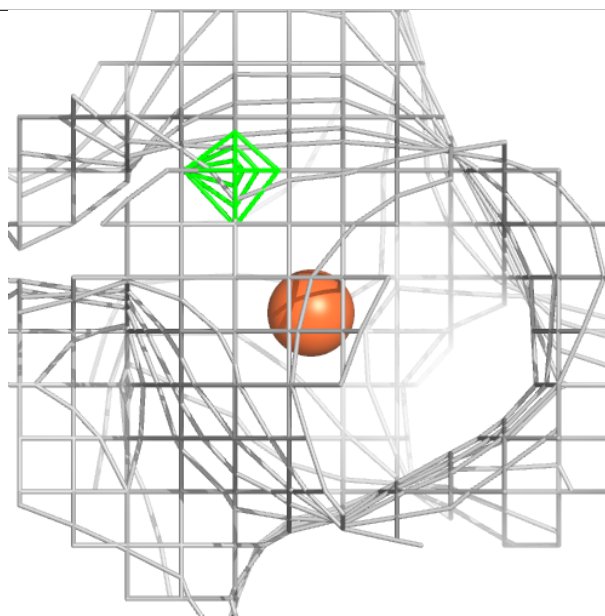
Electron density around FE G 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



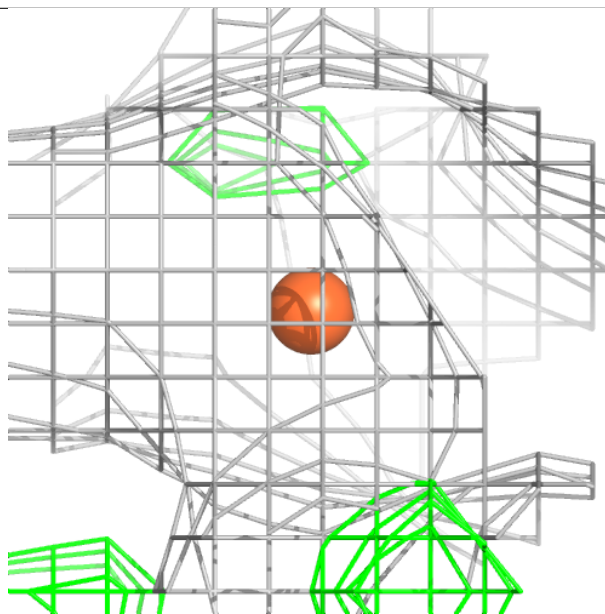
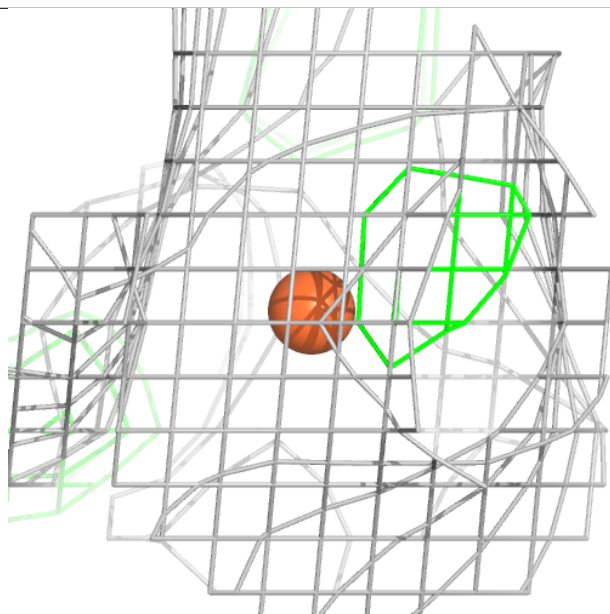
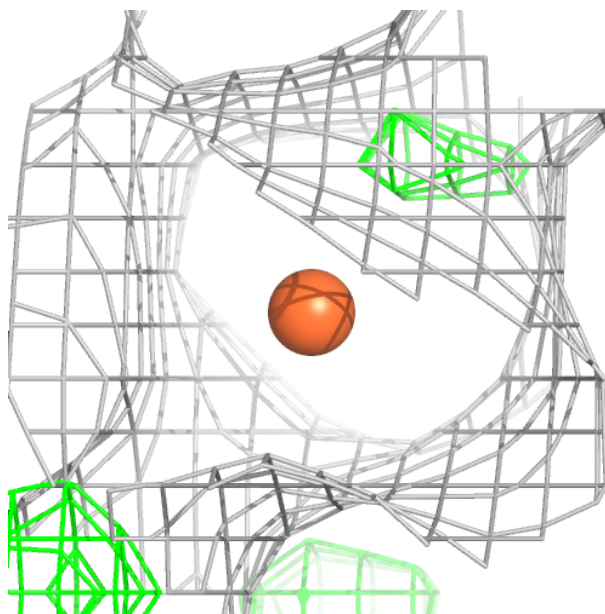
Electron density around FE B 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



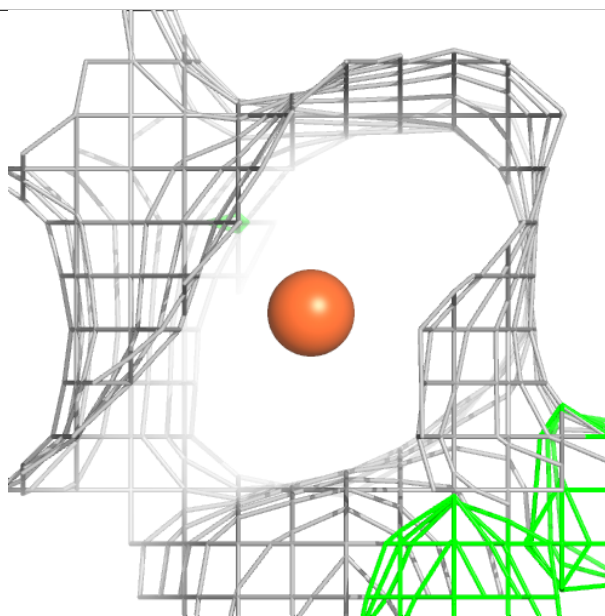
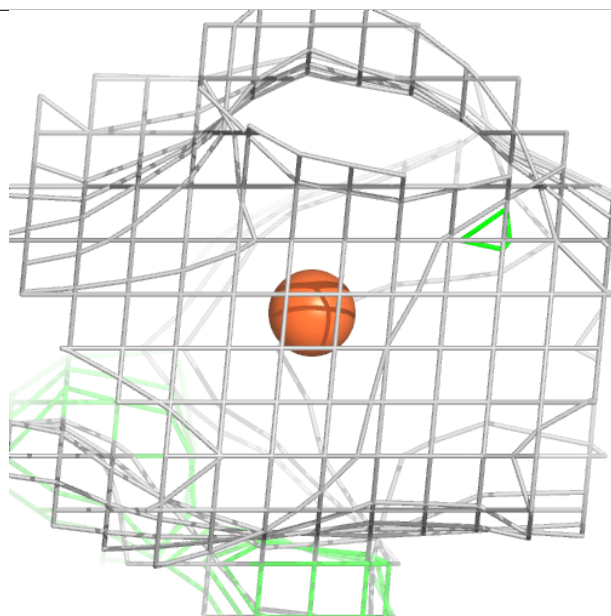
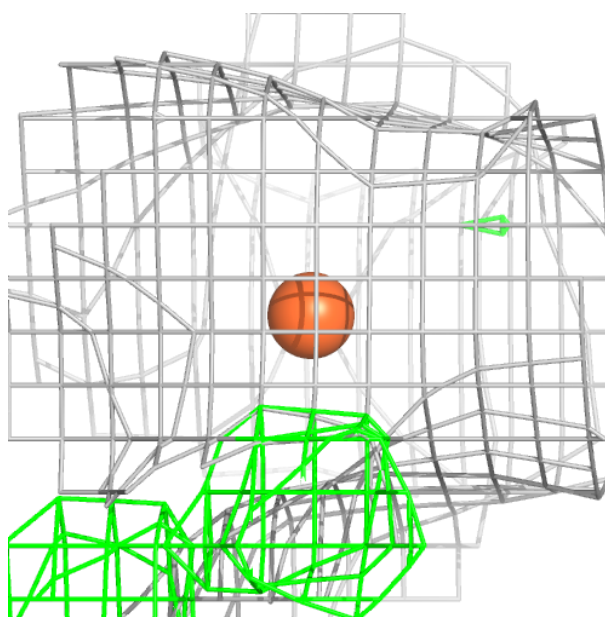
Electron density around FE R 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



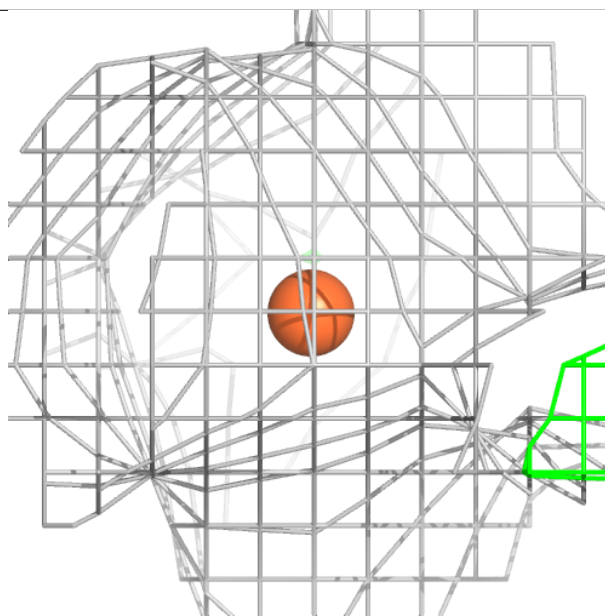
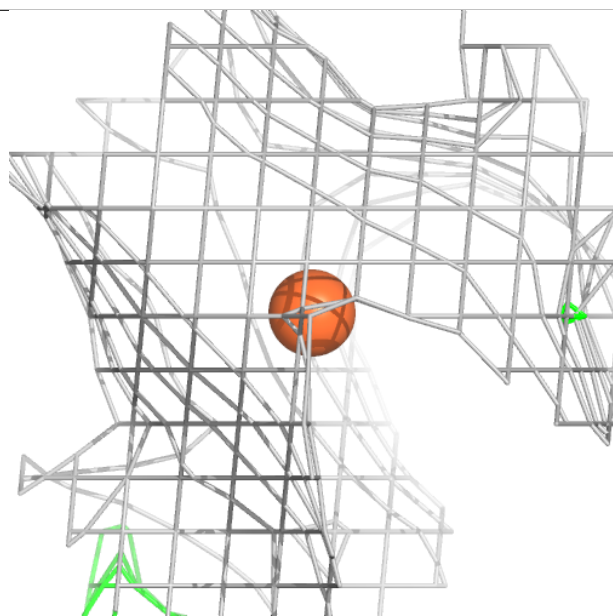
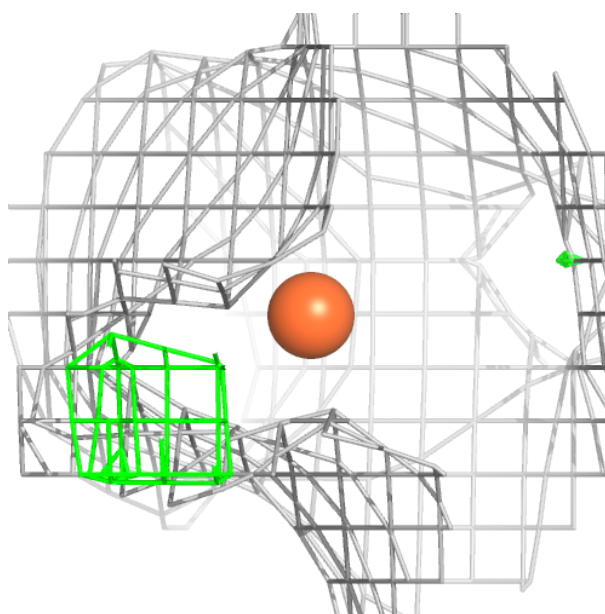
Electron density around FE U 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



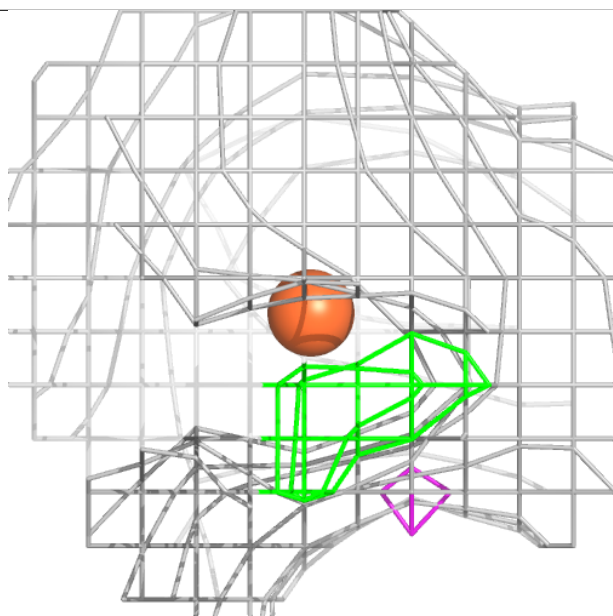
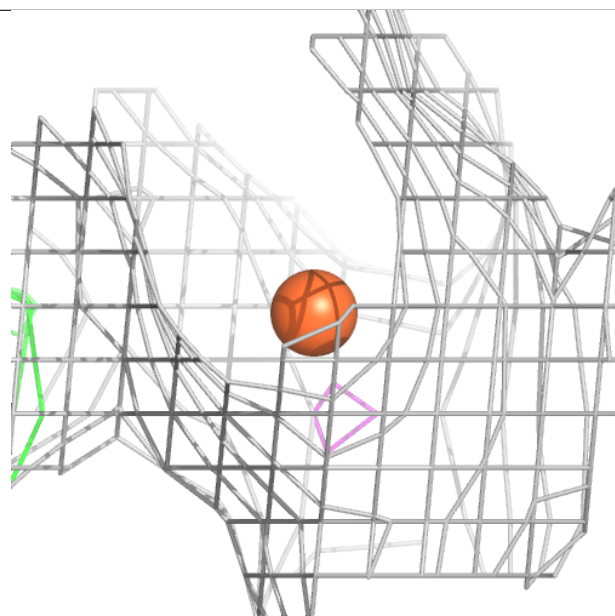
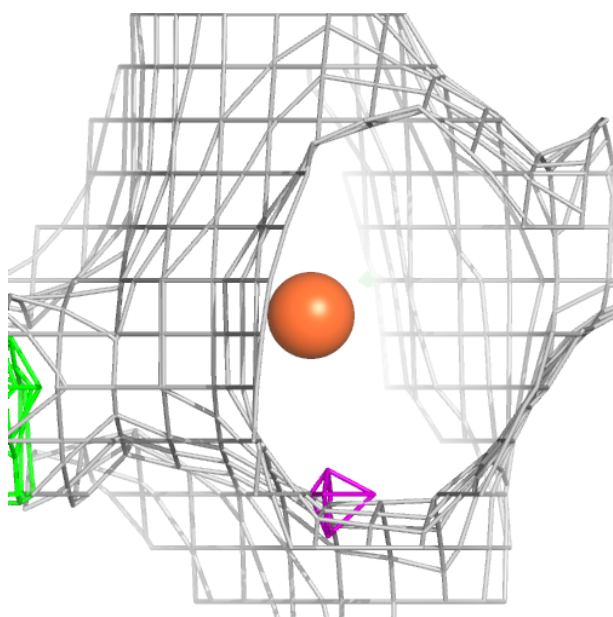
Electron density around FE V 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



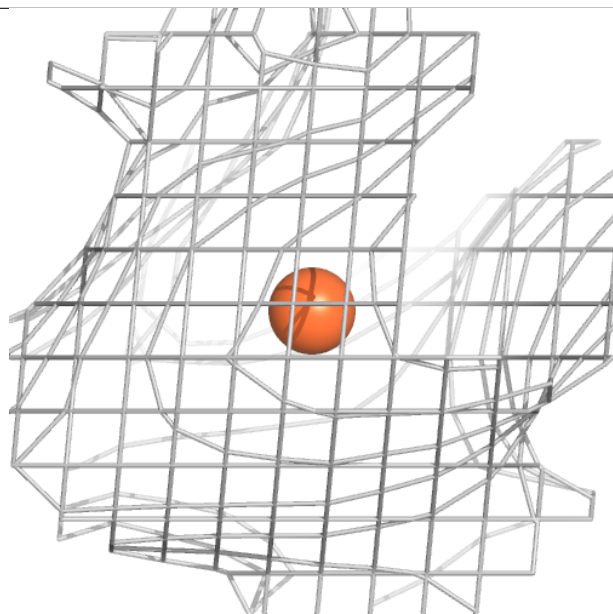
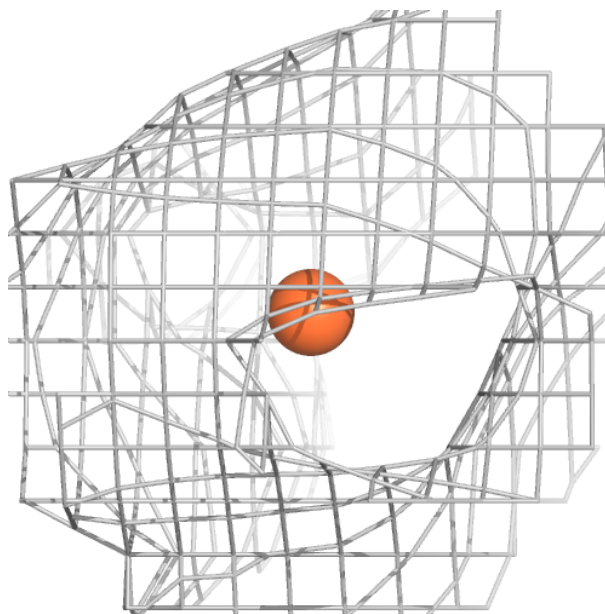
Electron density around FE W 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



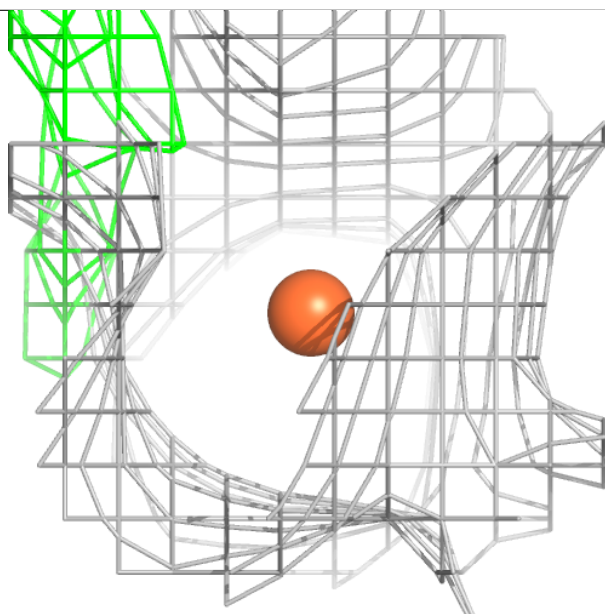
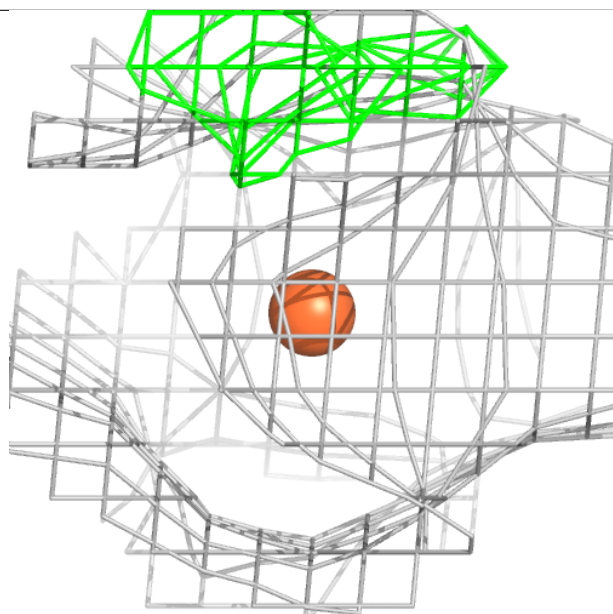
Electron density around FE Y 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



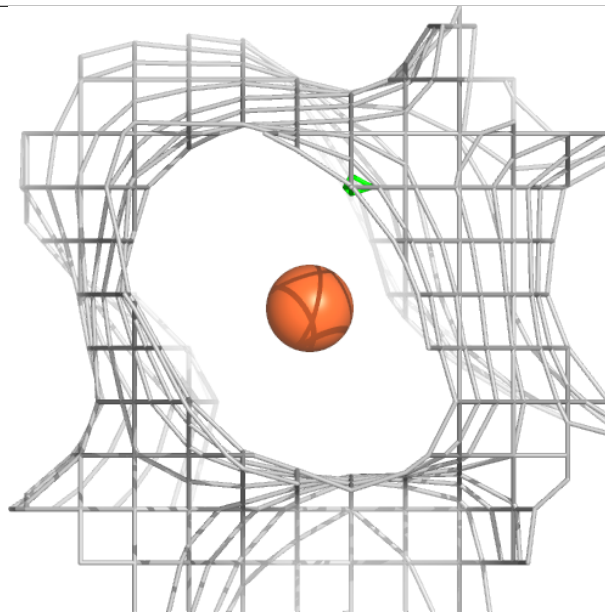
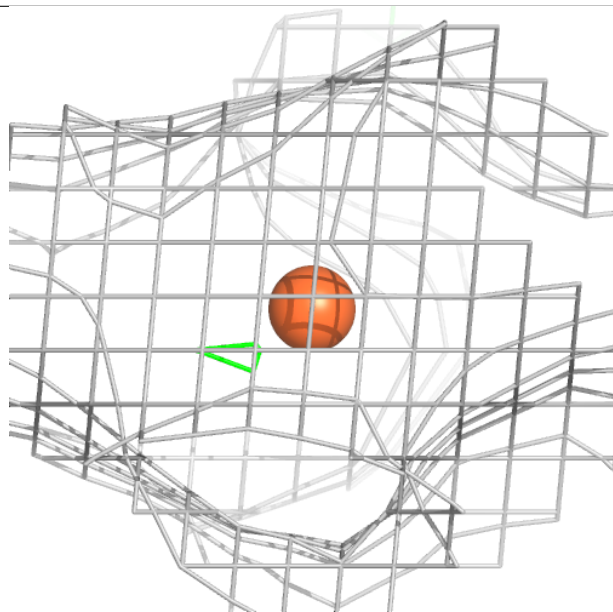
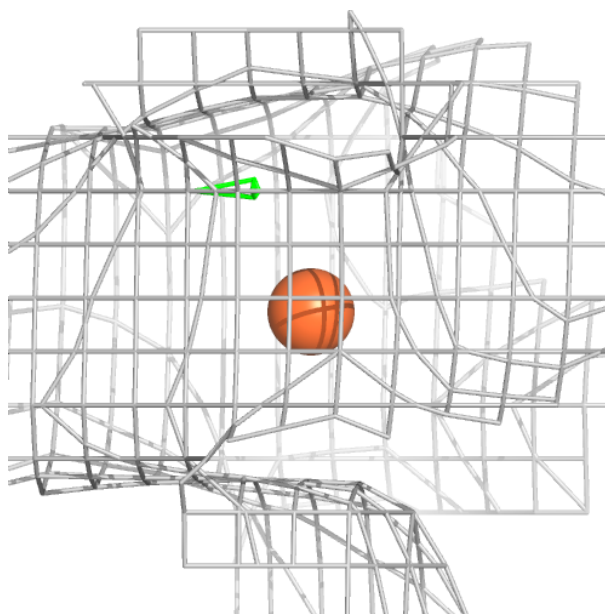
Electron density around FE Z 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



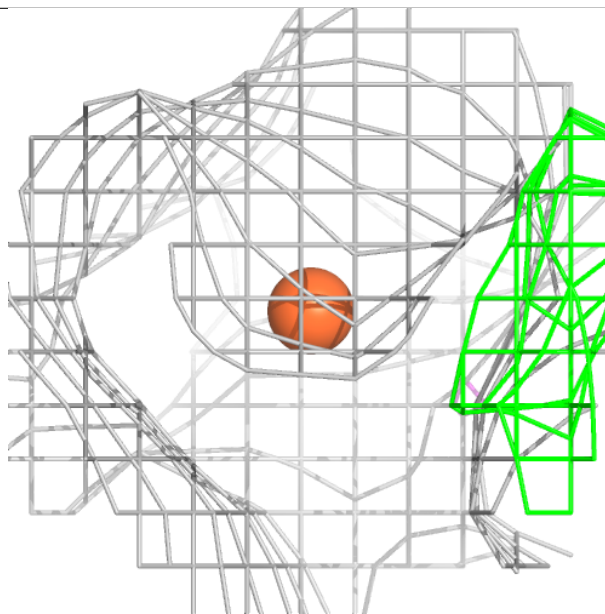
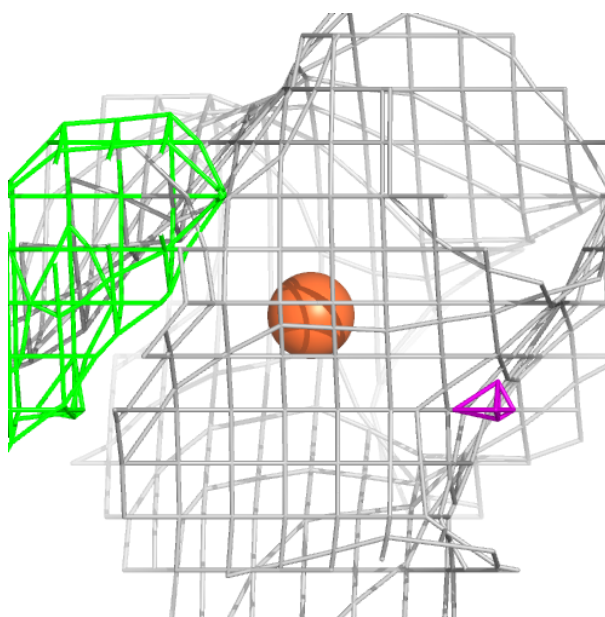
Electron density around FE F 201:

$2mF_o - DF_c$ (at 0.7 rmsd) in gray
 $mF_o - DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)



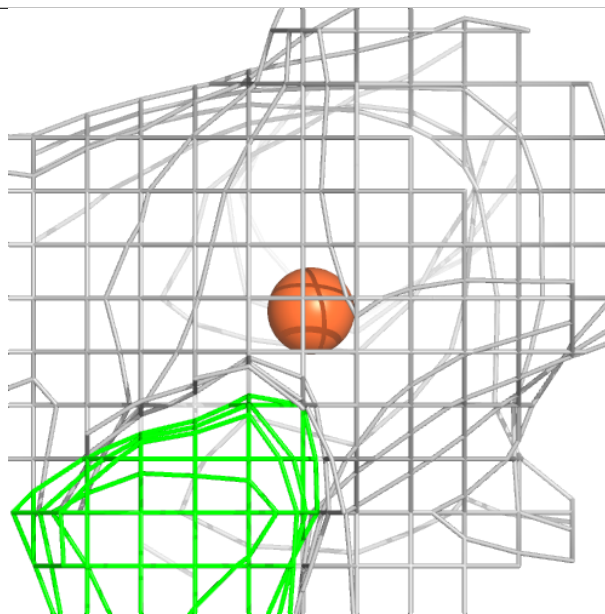
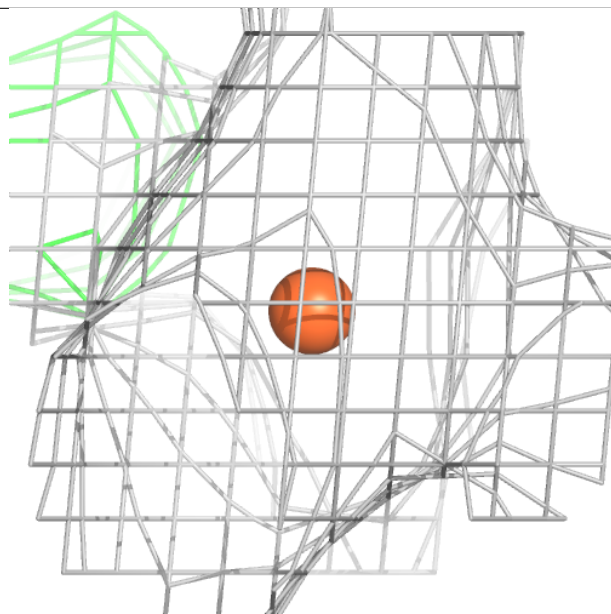
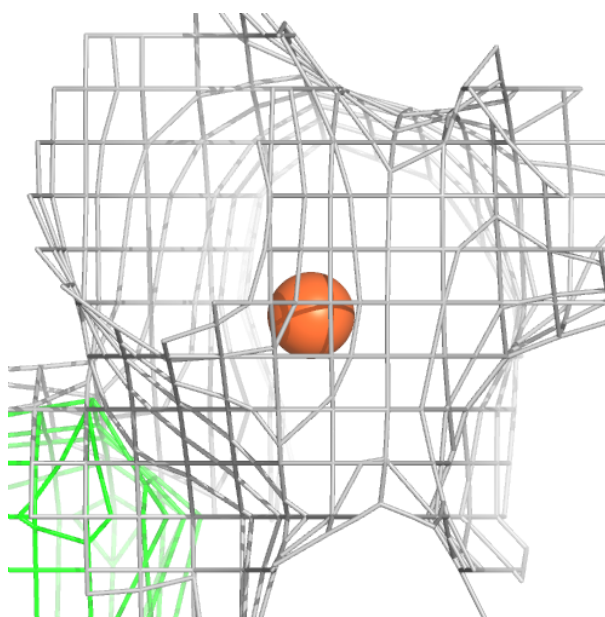
Electron density around FE b 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



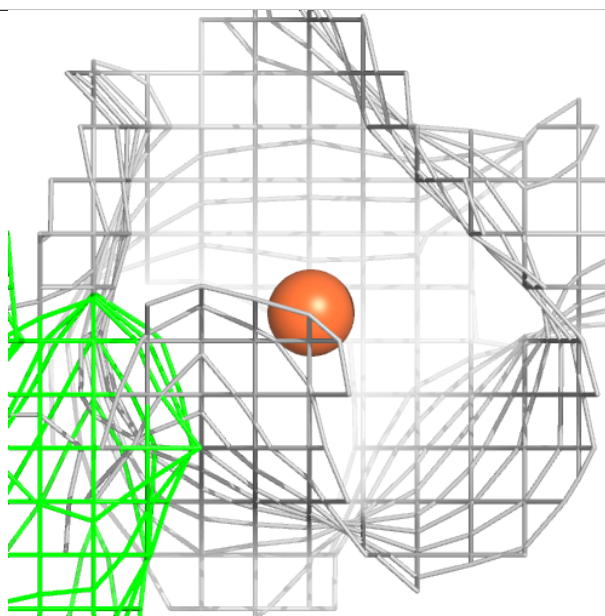
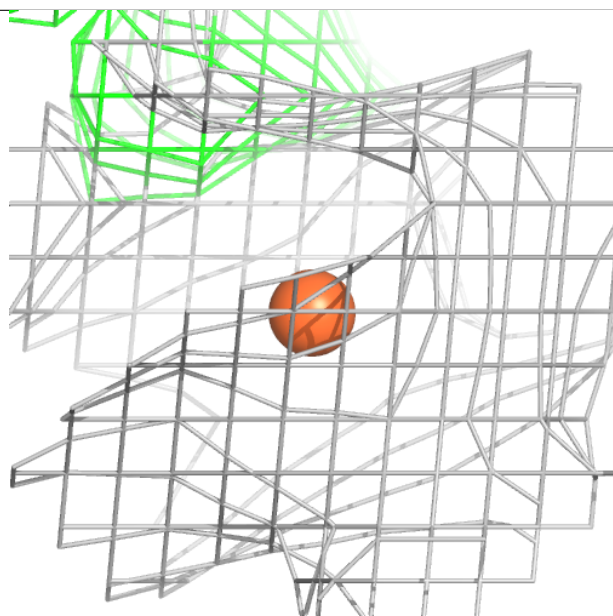
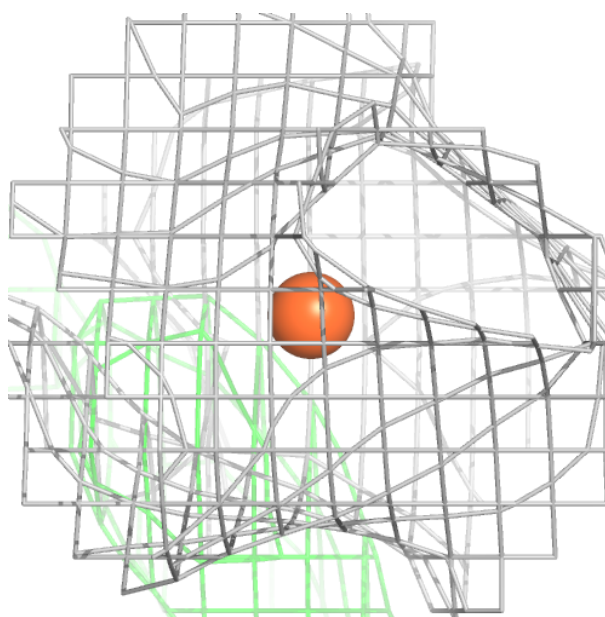
Electron density around FE c 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



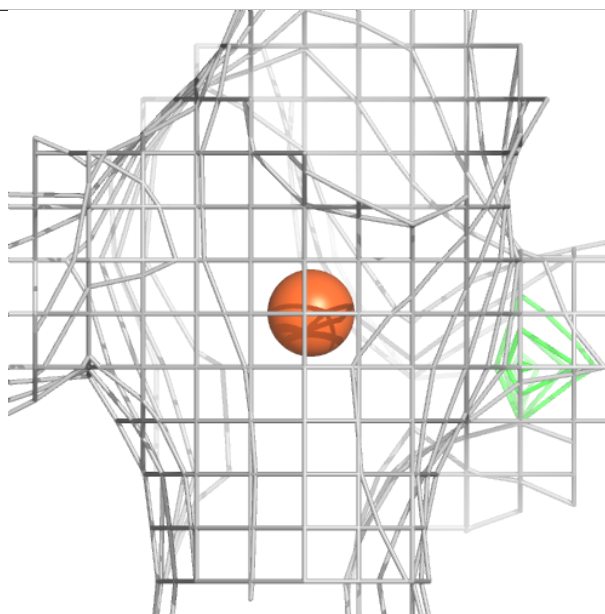
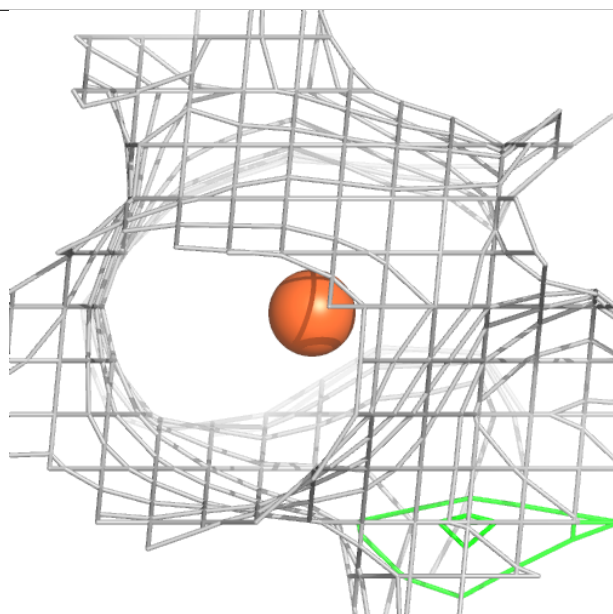
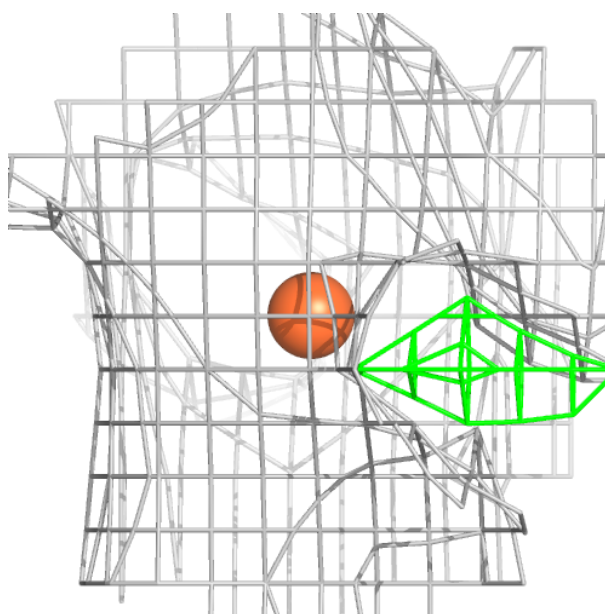
Electron density around FE d 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



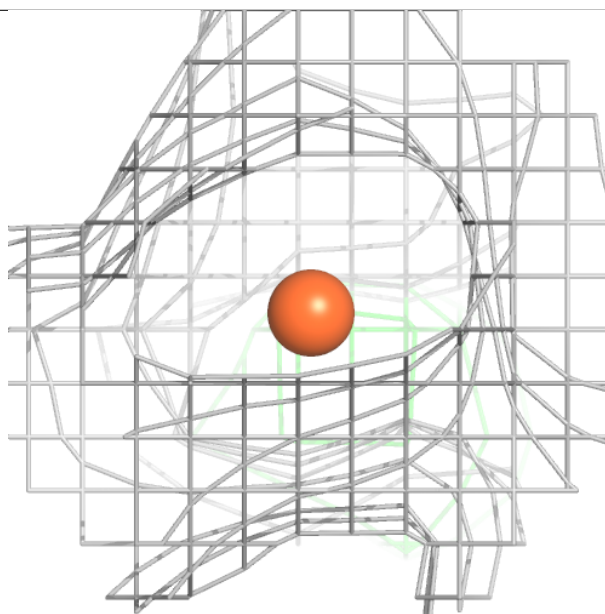
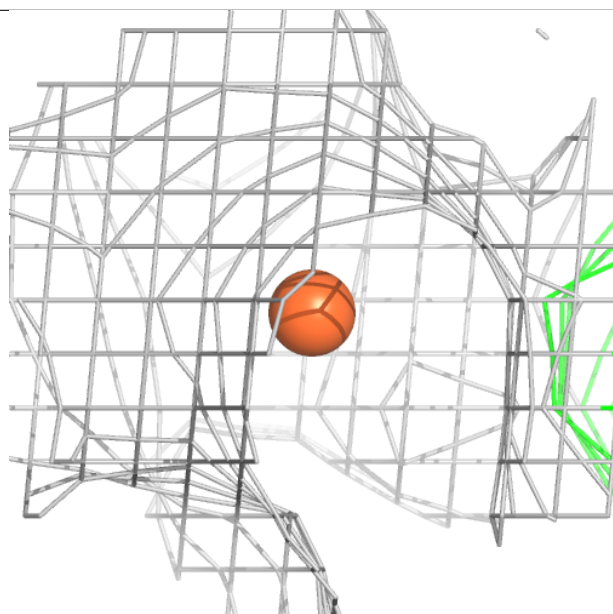
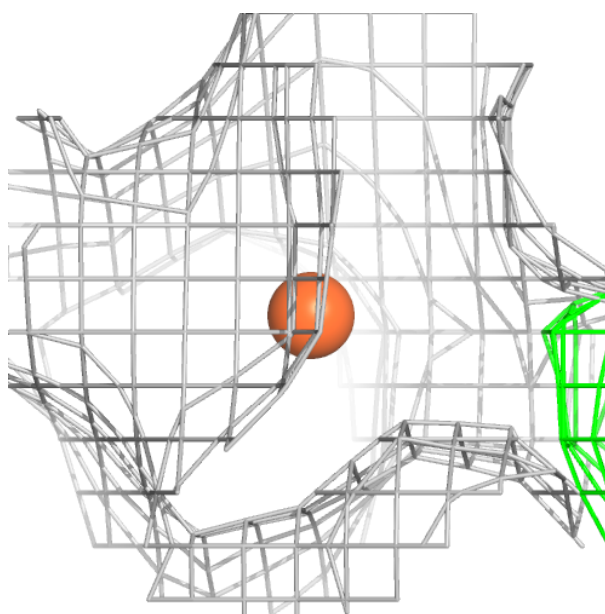
Electron density around FE O 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



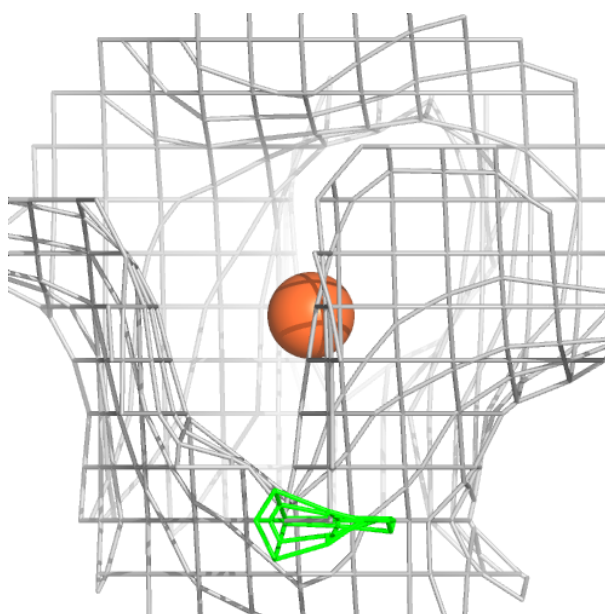
Electron density around FE D 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



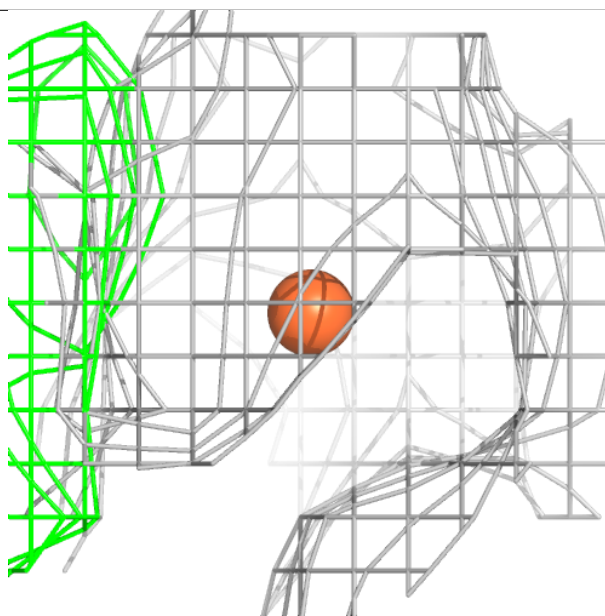
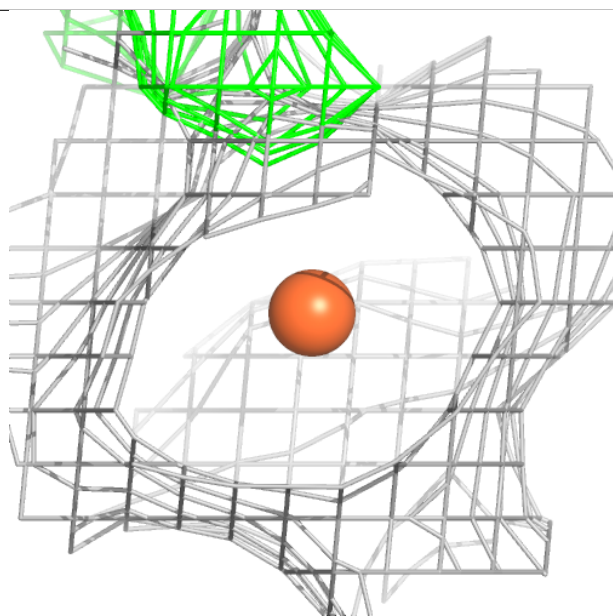
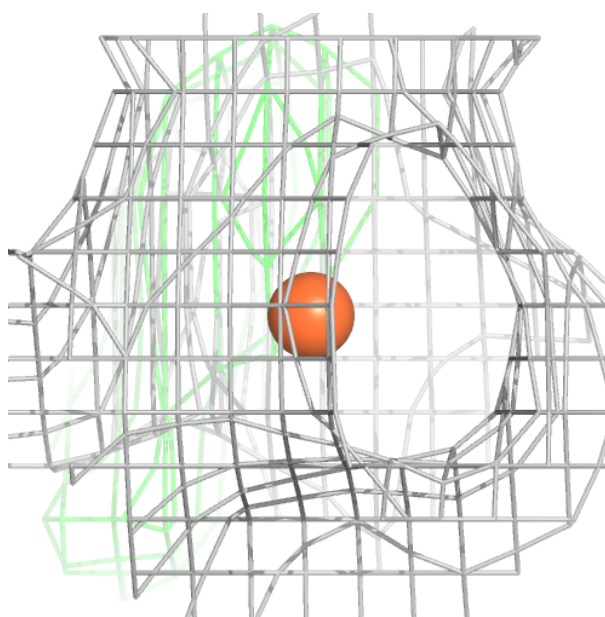
Electron density around FE S 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



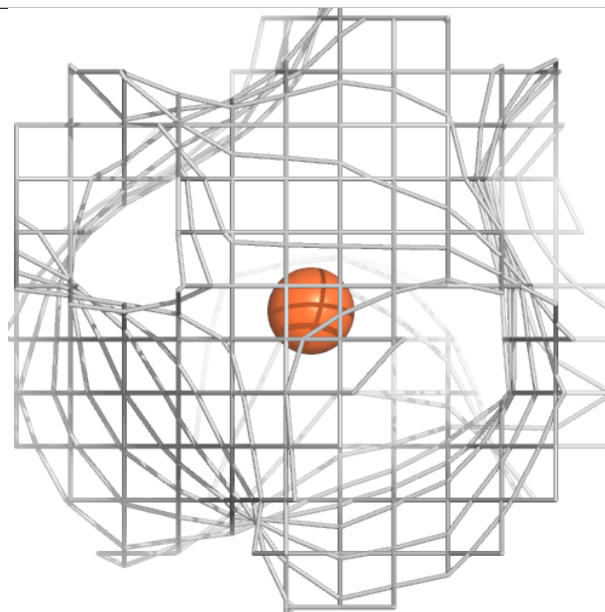
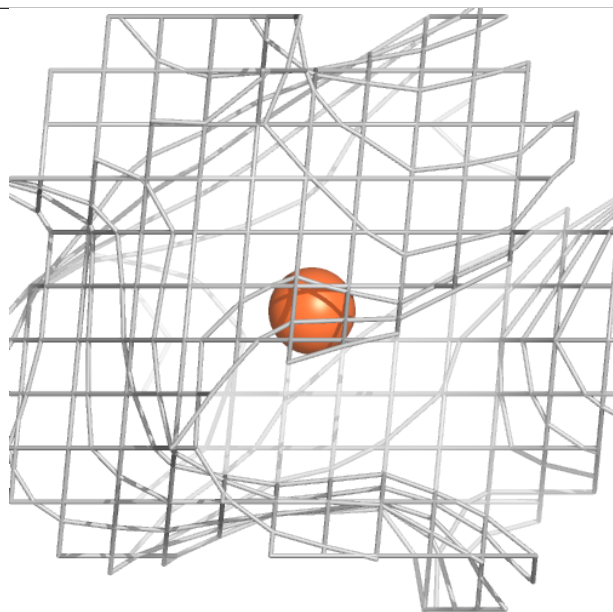
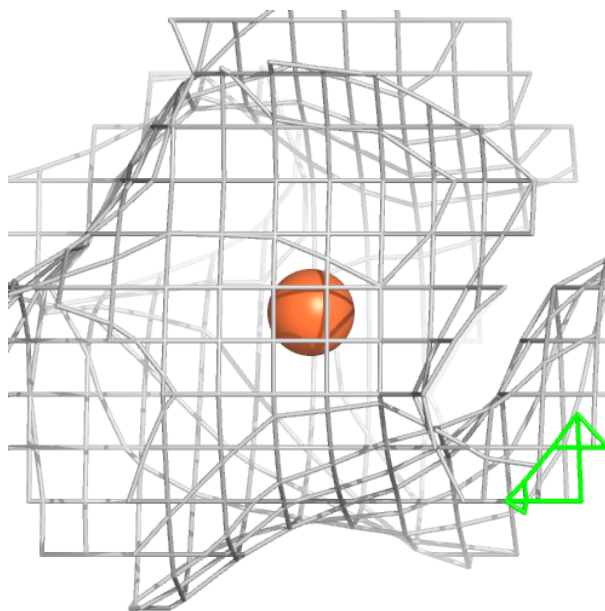
Electron density around FE T 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



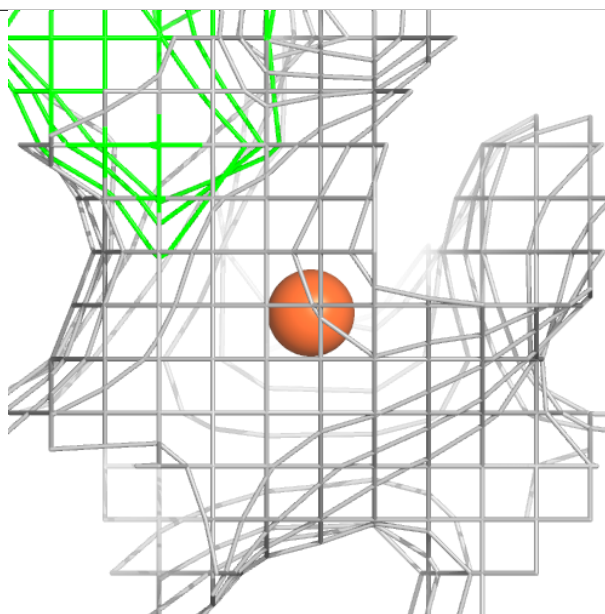
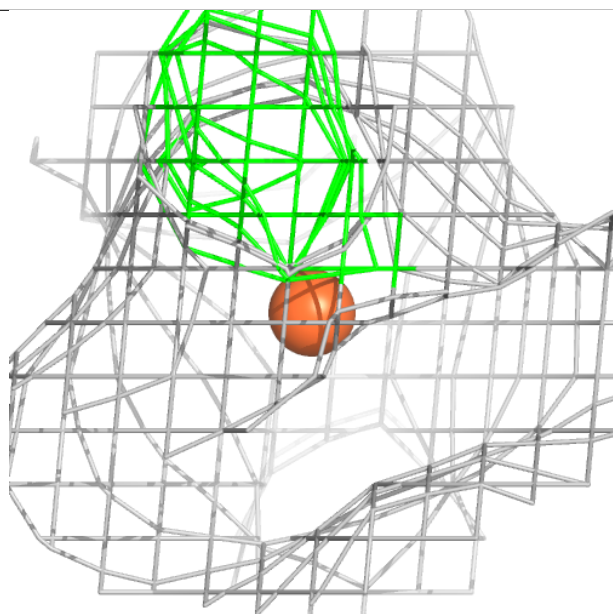
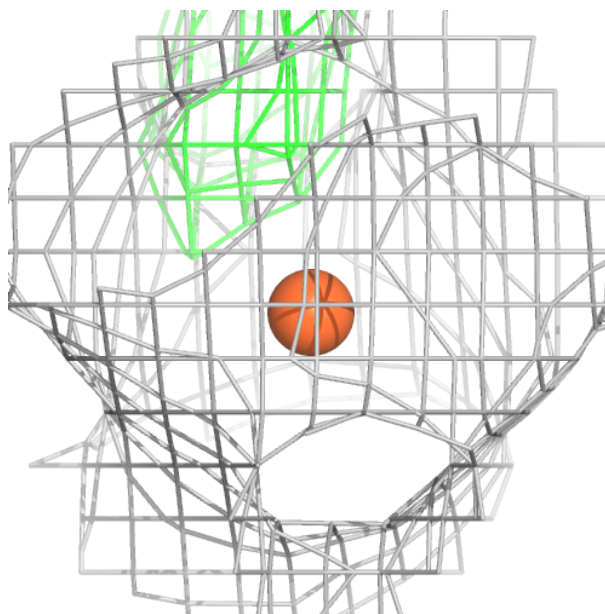
Electron density around FE H 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



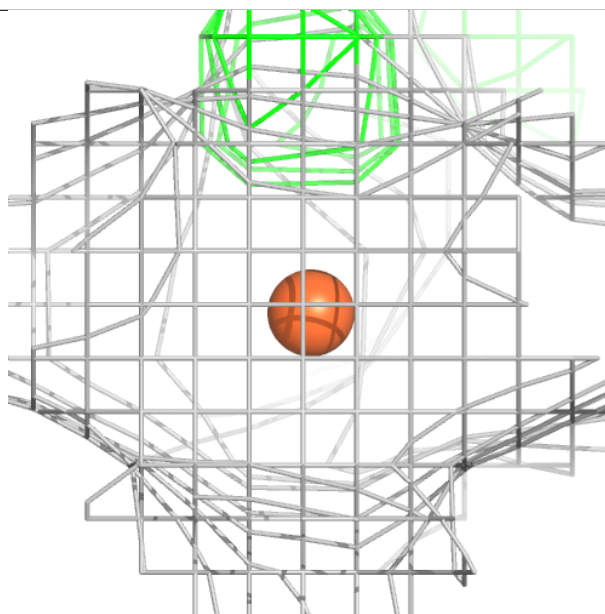
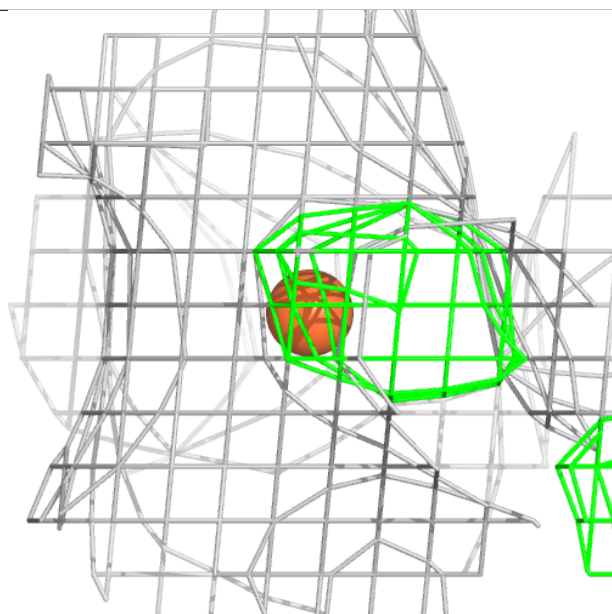
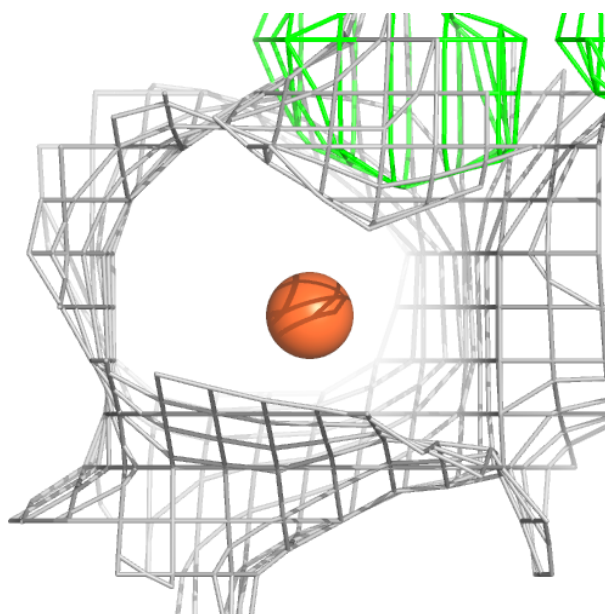
Electron density around FE K 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



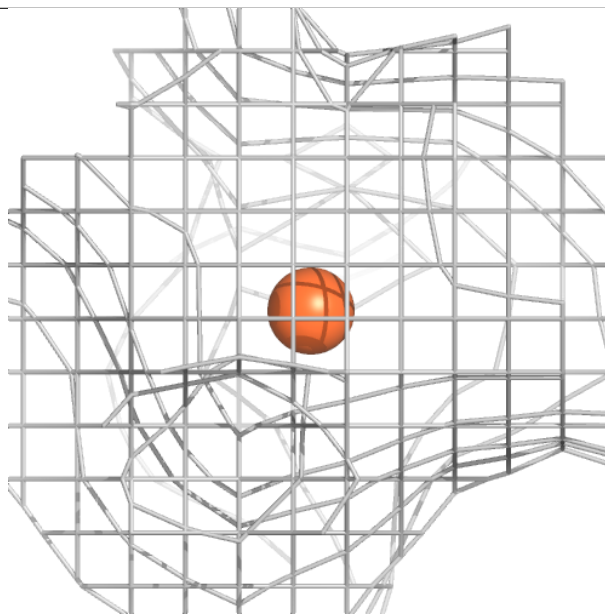
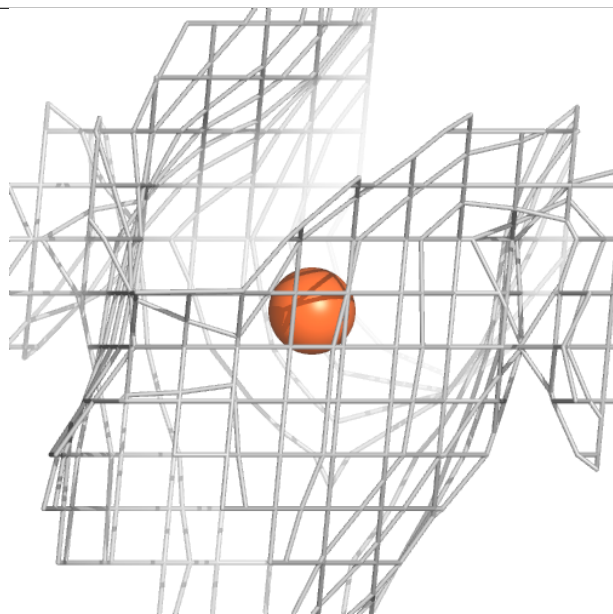
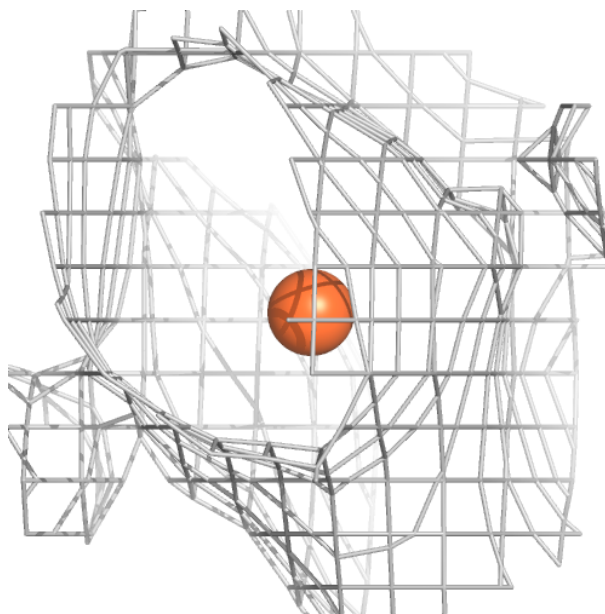
Electron density around FE L 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



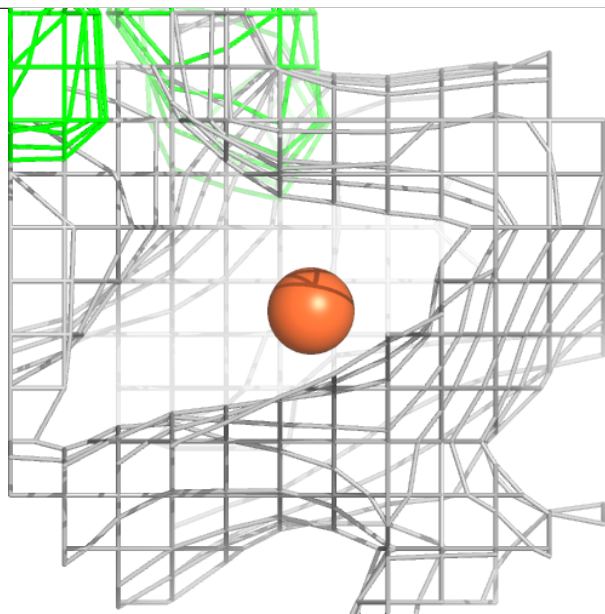
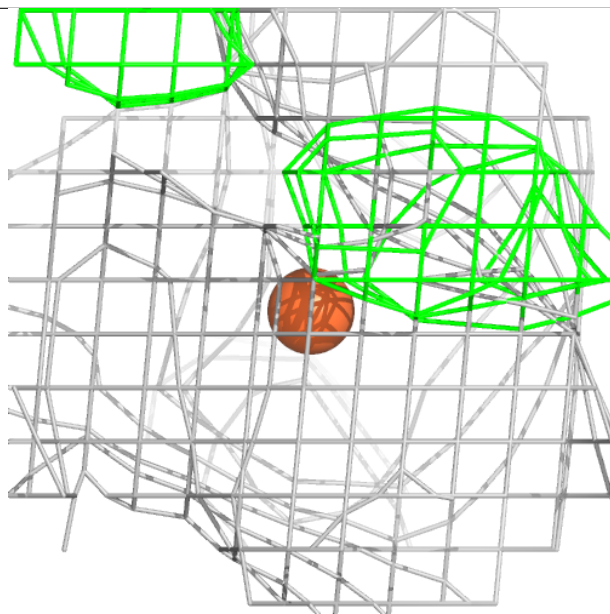
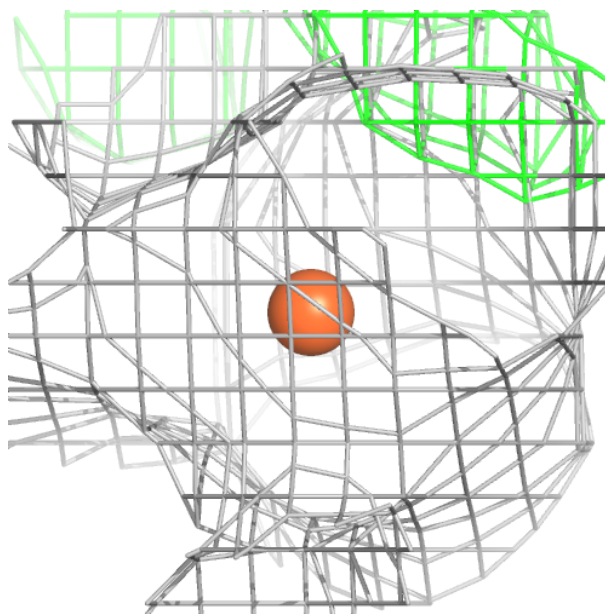
Electron density around FE X 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



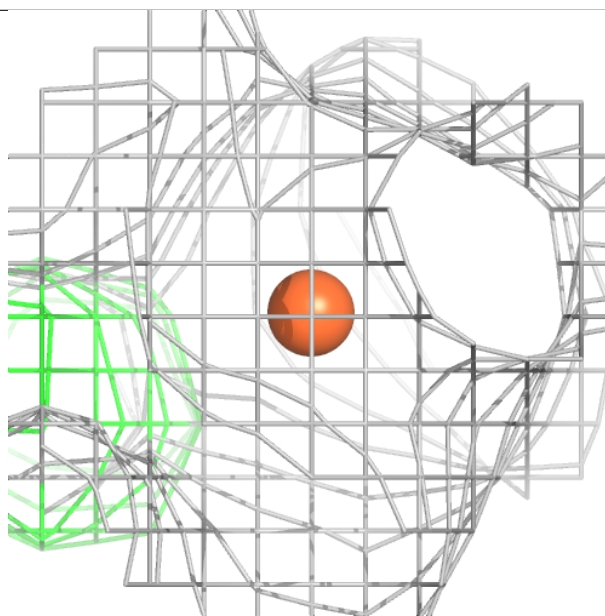
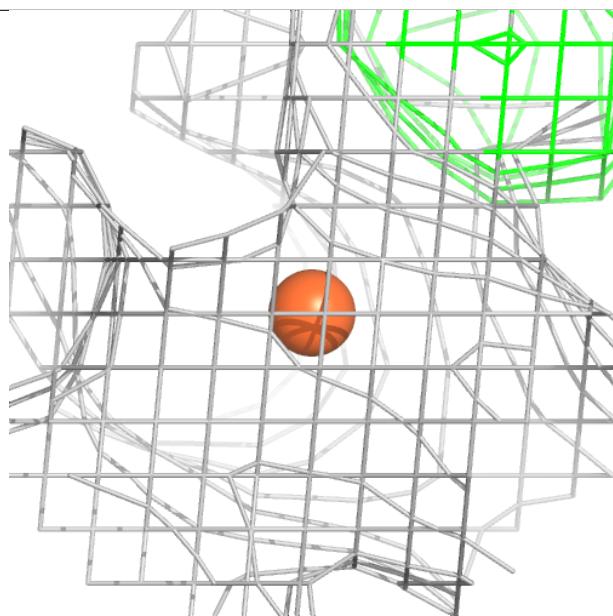
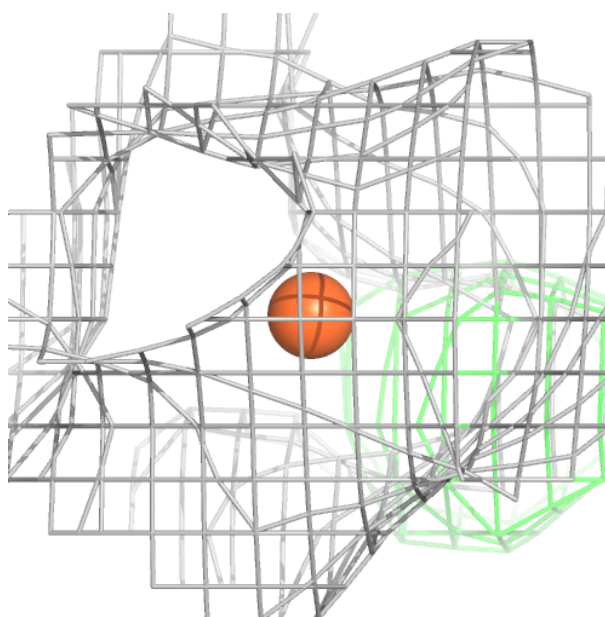
Electron density around FE M 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



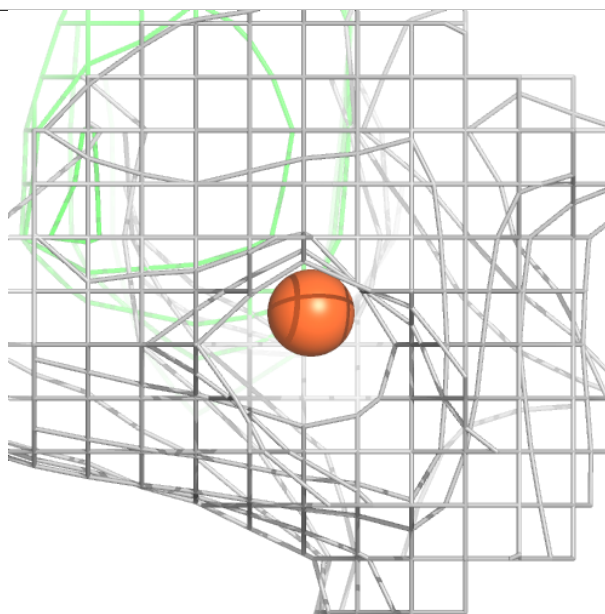
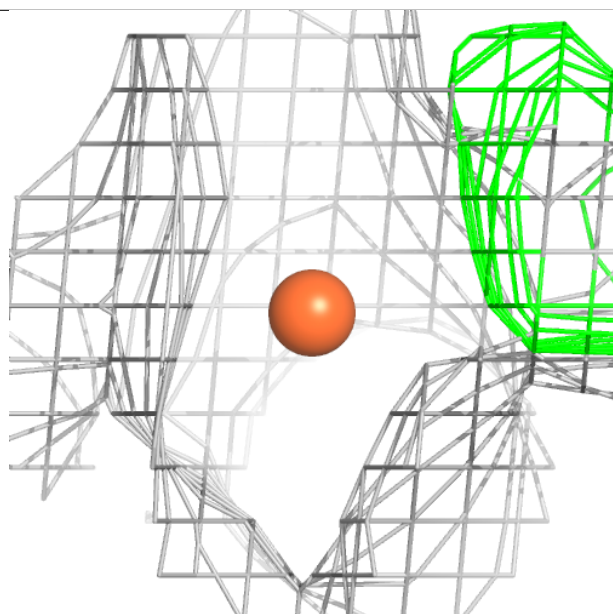
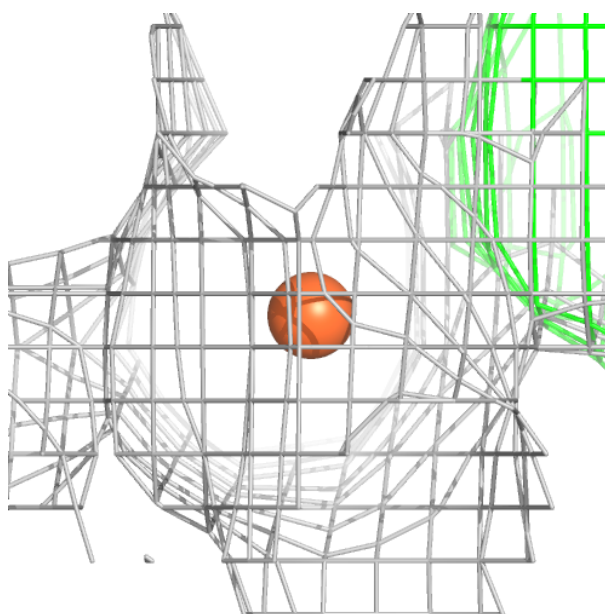
Electron density around FE E 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



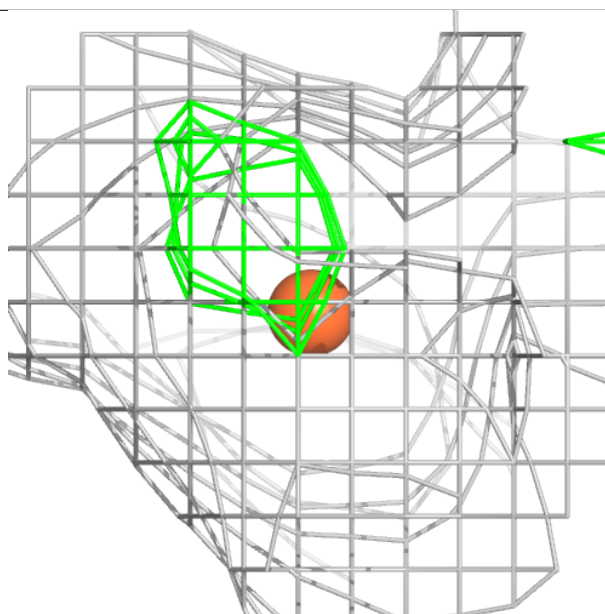
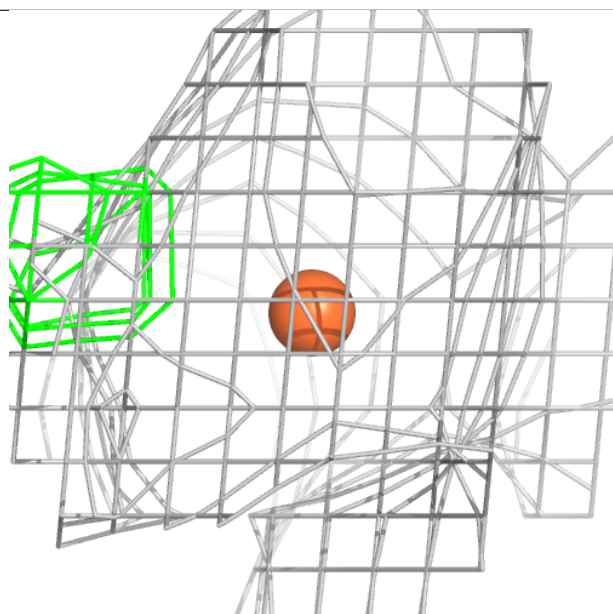
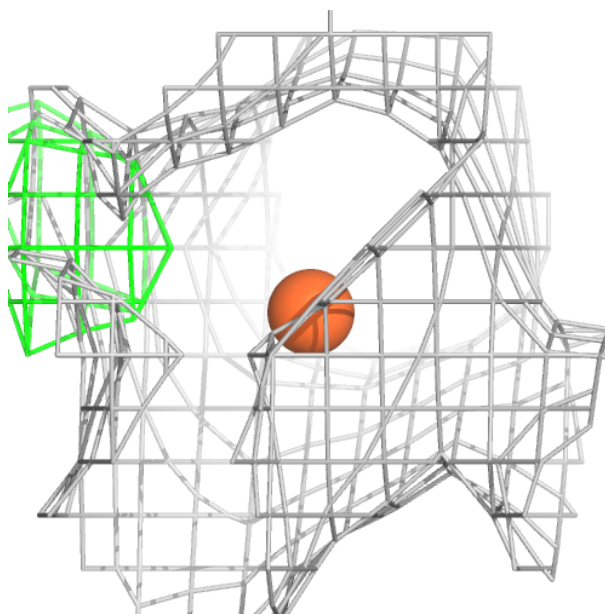
Electron density around FE I 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



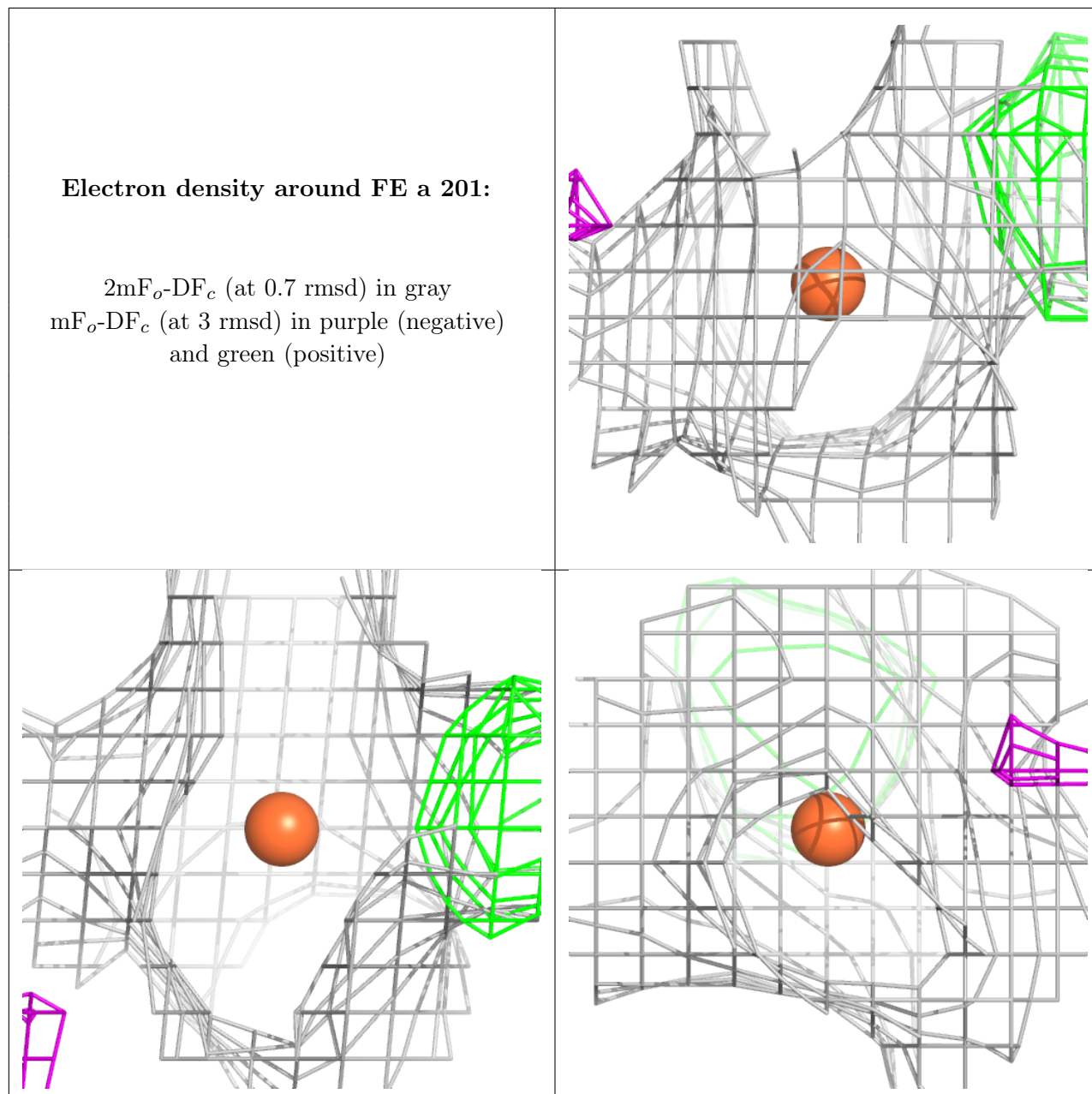
Electron density around FE C 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



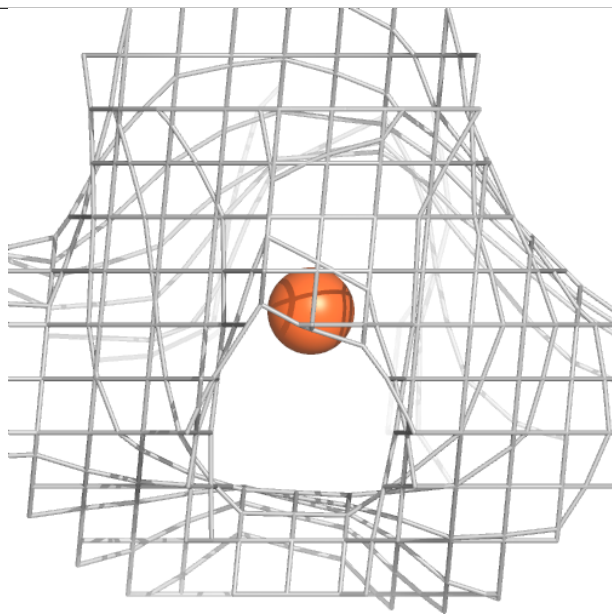
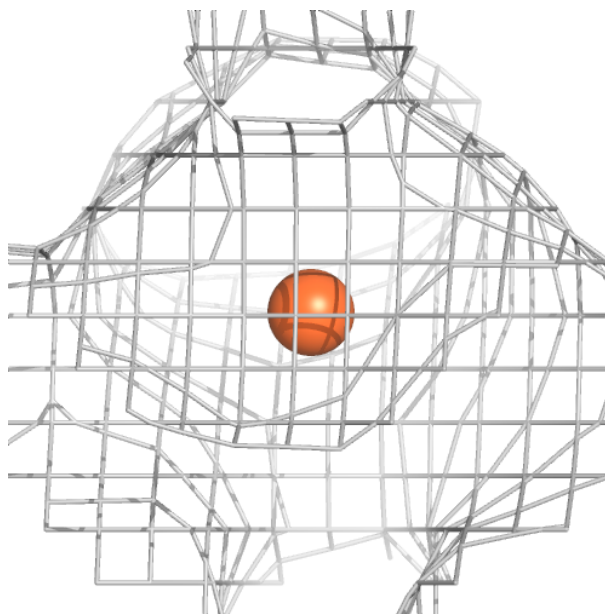
Electron density around FE a 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



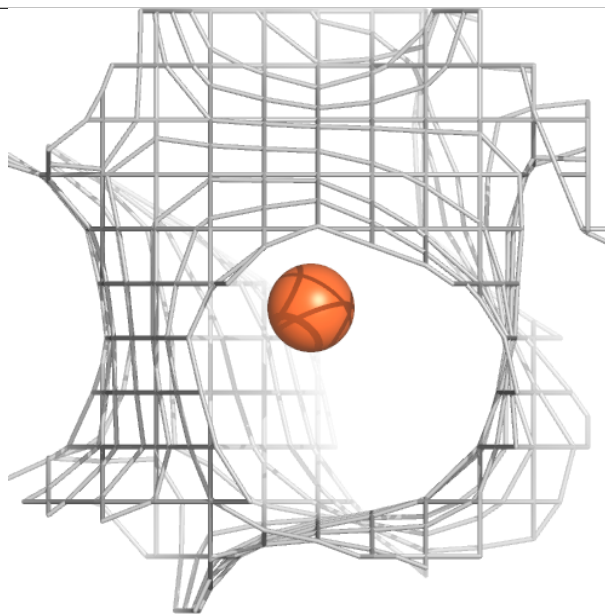
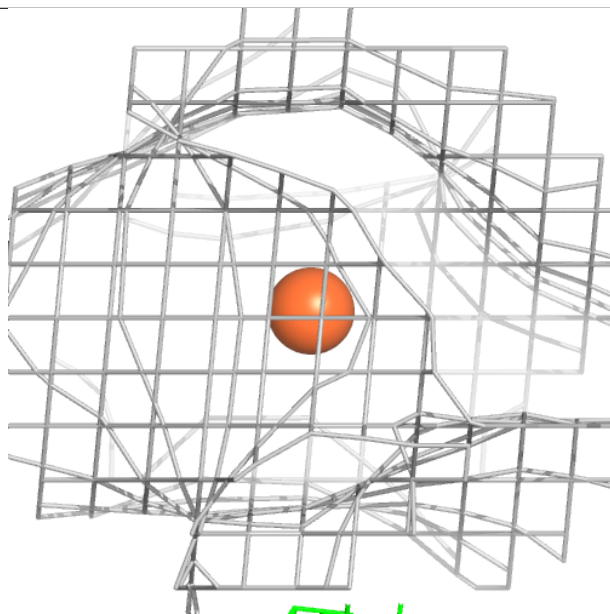
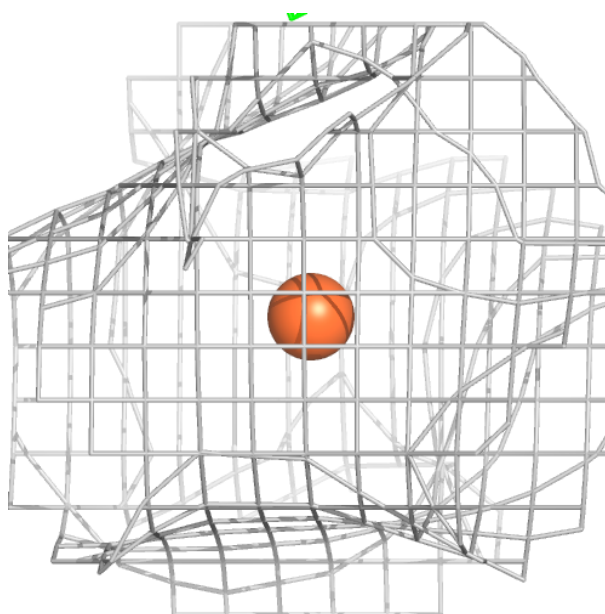
Electron density around FE Q 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



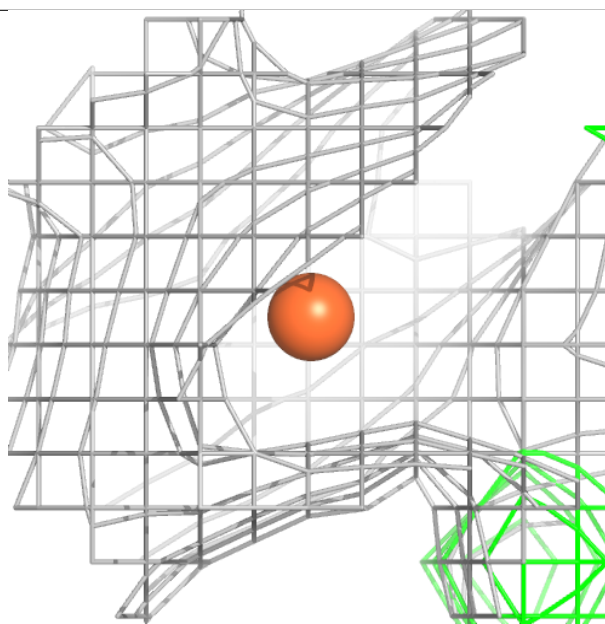
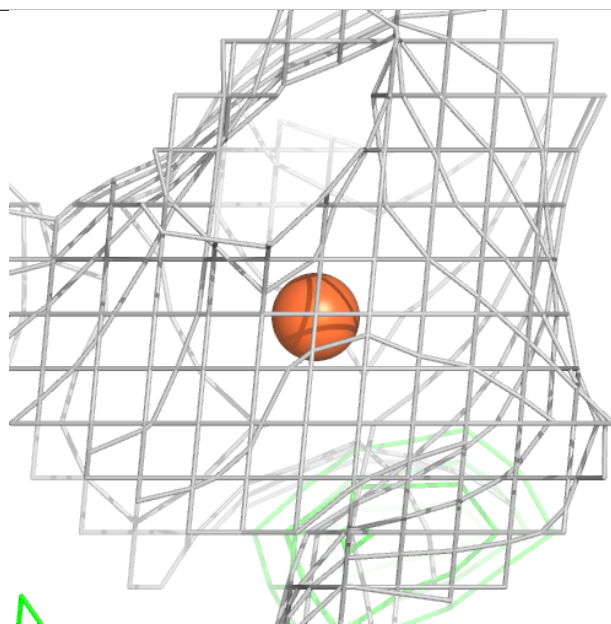
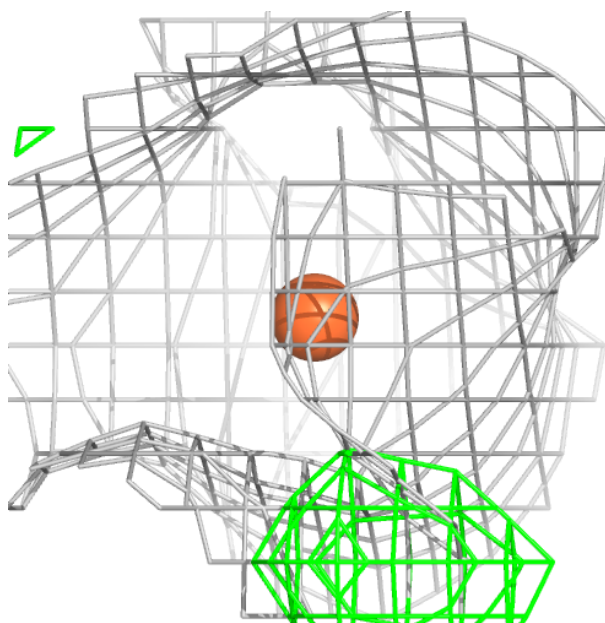
Electron density around FE A 201:

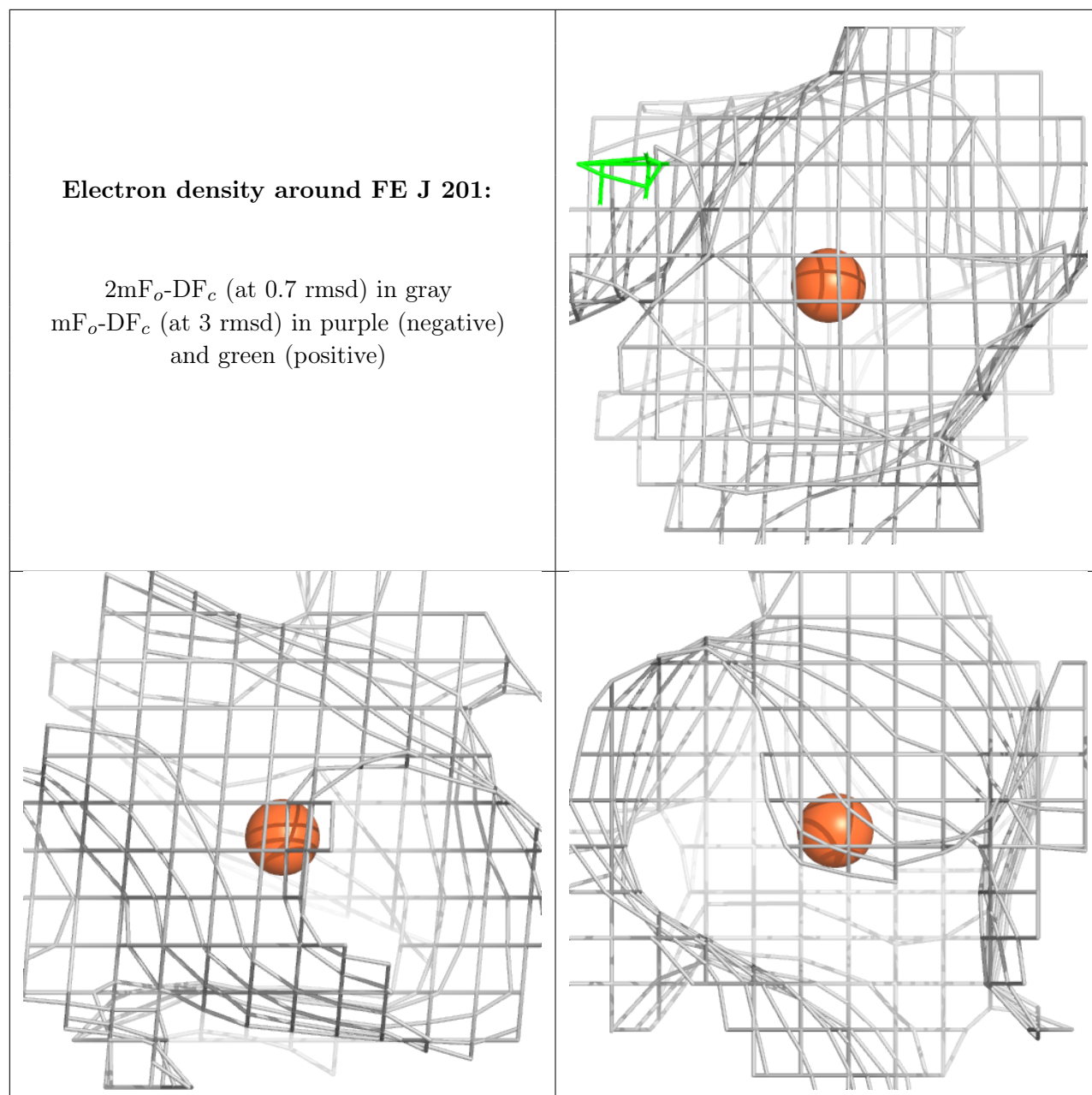
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around FE P 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





6.5 Other polymers ⓘ

There are no such residues in this entry.