



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 01:53 AM UTC

PDB ID : 7WAA / pdb_00007waa
Title : Crystal structure of MCR-1-S treated by AgNO₃
Authors : Zhang, Q.; Wang, M.; Sun, H.
Deposited on : 2021-12-13
Resolution : 1.58 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
Mogul : 2022.3.0, CSD as543be (2022)
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

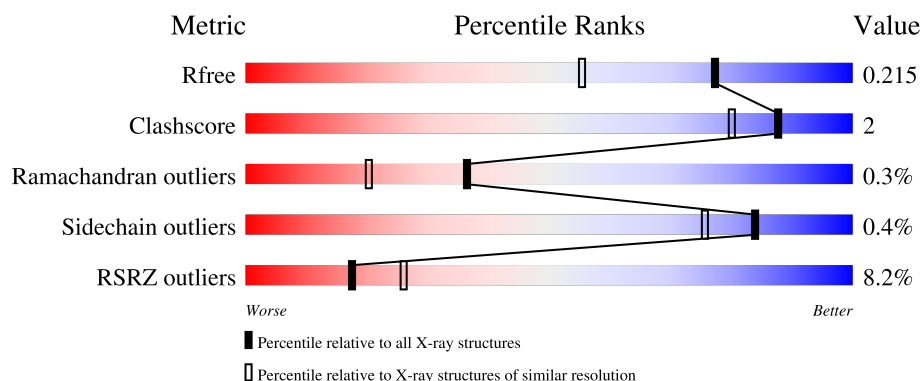
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.58 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	1094 (1.58-1.58)
Clashscore	190562	1105 (1.58-1.58)
Ramachandran outliers	187476	1082 (1.58-1.58)
Sidechain outliers	187428	1081 (1.58-1.58)
RSRZ outliers	180081	1094 (1.58-1.58)

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	336	5% 93%
1	B	336	11% 91% 5%

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 5142 atoms, of which 0 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 Probable phosphatidylethanolamine transferase Mcr-1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	323	Total	C	N	O	P	S	0	0	0
			2517	1582	424	494	1	16			
1	B	323	Total	C	N	O	P	S	0	0	0
			2510	1578	423	492	1	16			

There are 26 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-10	HIS	-	expression tag	UNP A0A0R6L508
A	-9	MET	-	expression tag	UNP A0A0R6L508
A	-8	LEU	-	expression tag	UNP A0A0R6L508
A	-7	GLU	-	expression tag	UNP A0A0R6L508
A	-6	GLY	-	expression tag	UNP A0A0R6L508
A	-5	GLY	-	expression tag	UNP A0A0R6L508
A	-4	SER	-	expression tag	UNP A0A0R6L508
A	-3	GLY	-	expression tag	UNP A0A0R6L508
A	-2	GLY	-	expression tag	UNP A0A0R6L508
A	-1	SER	-	expression tag	UNP A0A0R6L508
A	0	GLY	-	expression tag	UNP A0A0R6L508
A	1	GLY	-	expression tag	UNP A0A0R6L508
A	2	SER	-	expression tag	UNP A0A0R6L508
B	-10	HIS	-	expression tag	UNP A0A0R6L508
B	-9	MET	-	expression tag	UNP A0A0R6L508
B	-8	LEU	-	expression tag	UNP A0A0R6L508
B	-7	GLU	-	expression tag	UNP A0A0R6L508
B	-6	GLY	-	expression tag	UNP A0A0R6L508
B	-5	GLY	-	expression tag	UNP A0A0R6L508
B	-4	SER	-	expression tag	UNP A0A0R6L508
B	-3	GLY	-	expression tag	UNP A0A0R6L508
B	-2	GLY	-	expression tag	UNP A0A0R6L508
B	-1	SER	-	expression tag	UNP A0A0R6L508
B	0	GLY	-	expression tag	UNP A0A0R6L508
B	1	GLY	-	expression tag	UNP A0A0R6L508

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Chain	Residue	Modelled	Actual	Comment	Reference
B	2	SER	-	expression tag	UNP A0A0R6L508

- Molecule 2 is SILVER ION (CCD ID: AG) (formula: Ag) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	9	Total Ag 9 9	0	0
2	B	10	Total Ag 10 10	0	0

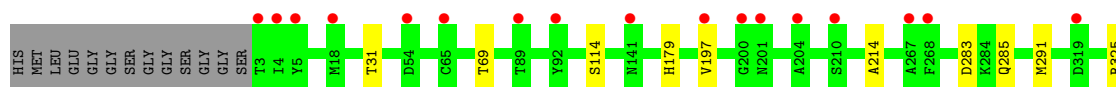
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	58	Total O 58 58	0	0
3	B	38	Total O 38 38	0	0

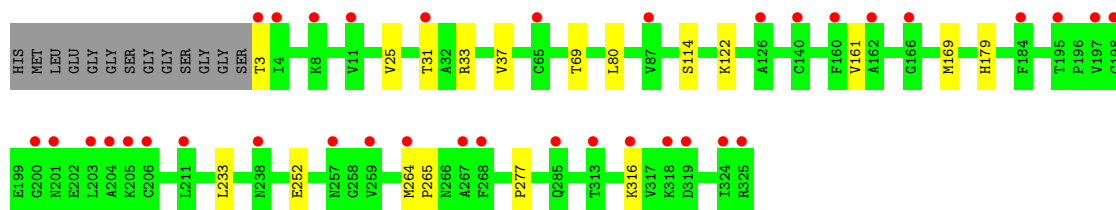
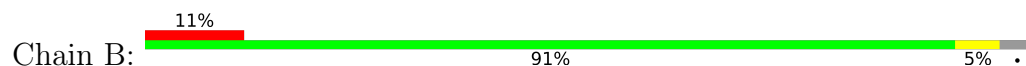
3 Residue-property plots [i](#)

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: Probable phosphatidylethanolamine transferase Mcr-1



- Molecule 1: Probable phosphatidylethanolamine transferase Mcr-1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	47.20Å 84.42Å 81.76Å 90.00° 98.67° 90.00°	Depositor
Resolution (Å)	42.21 – 1.58 42.21 – 1.58	Depositor EDS
% Data completeness (in resolution range)	98.7 (42.21-1.58) 98.7 (42.21-1.58)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.93 (at 1.58Å)	Xtriage
Refinement program	PHENIX 1.14_3219	Depositor
R, R_{free}	0.193 , 0.212 0.194 , 0.215	Depositor DCC
R_{free} test set	4338 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	29.5	Xtriage
Anisotropy	0.266	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 28.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	5142	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.41% 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 [i](#)

5.1 Standard geometry [i](#)

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

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	0/2562	0.48	0/3480
1	B	0.20	0/2555	0.41	0/3472
All	All	0.24	0/5117	0.45	0/6952

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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	2517	0	2386	4	0
1	B	2510	0	2373	10	0
2	A	9	0	0	0	0
2	B	10	0	0	0	0
3	A	58	0	0	0	0
3	B	38	0	0	0	0
All	All	5142	0	4759	14	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 2.

All (14) 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:B:264:MET:HE3	1:B:265:PRO:HD2	1.48	0.92
1:A:197:VAL:HG13	1:A:214:ALA:HB2	1.75	0.69
1:A:291:MET:SD	1:A:325:ARG:NH1	2.71	0.63
1:B:264:MET:HE3	1:B:265:PRO:CD	2.29	0.56
1:B:3:THR:HG21	1:B:122:LYS:HD3	1.90	0.53
1:B:31:THR:HG22	1:B:31:THR:O	2.13	0.48
1:B:80:LEU:HD13	1:B:316:LYS:NZ	2.31	0.46
1:B:25:VAL:HG23	1:B:233:LEU:HD21	1.98	0.46
1:A:31:THR:HG22	1:A:31:THR:O	2.16	0.45
1:B:33:ARG:HD2	1:B:252:GLU:O	2.17	0.45
1:B:37:VAL:HG21	1:B:277:PRO:HB3	1.99	0.44
1:B:161:VAL:HG13	1:B:169:MET:HE1	1.99	0.43
1:A:283:ASP:OD2	1:A:285:GLN:NE2	2.51	0.43
1:B:264:MET:CE	1:B:265:PRO:HD2	2.34	0.43

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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	320/336 (95%)	311 (97%)	8 (2%)	1 (0%)	36	20
1	B	320/336 (95%)	314 (98%)	5 (2%)	1 (0%)	36	20
All	All	640/672 (95%)	625 (98%)	13 (2%)	2 (0%)	36	20

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	114	SER
1	B	114	SER

5.3.2 Protein sidechains [i](#)

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	269/281 (96%)	268 (100%)	1 (0%)	84	75
1	B	267/281 (95%)	266 (100%)	1 (0%)	84	75
All	All	536/562 (95%)	534 (100%)	2 (0%)	84	75

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	179	HIS
1	B	179	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	209	GLN
1	B	175	GLN
1	B	285	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

2 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	TPO	A	69	1,2	8,10,11	1.27	1 (12%)	10,14,16	1.31	1 (10%)
1	TPO	B	69	1,2	8,10,11	1.07	0	10,14,16	1.51	1 (10%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	TPO	A	69	1,2	-	1/9/11/13	-
1	TPO	B	69	1,2	-	1/9/11/13	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	69	TPO	P-OG1	2.83	1.64	1.59

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	69	TPO	P-OG1-CB	-3.55	113.68	123.33
1	A	69	TPO	P-OG1-CB	-2.42	116.74	123.33

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	69	TPO	O-C-CA-CB
1	B	69	TPO	O-C-CA-CB

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 19 ligands modelled in this entry, 19 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

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	322/336 (95%)	0.55	17 (5%)	32 43	22, 31, 49, 60	0
1	B	322/336 (95%)	0.95	36 (11%)	10 16	27, 40, 62, 76	0
All	All	644/672 (95%)	0.75	53 (8%)	17 26	22, 35, 57, 76	0

All (53) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	200	GLY	4.8
1	A	92	TYR	4.5
1	A	3	THR	3.8
1	B	200	GLY	3.8
1	B	204	ALA	3.4
1	B	259	VAL	3.4
1	A	319	ASP	3.4
1	B	3	THR	3.3
1	B	201	ASN	3.1
1	A	18	MET	3.1
1	B	257	ASN	3.1
1	B	268	PHE	3.1
1	B	65	CYS	3.1
1	B	162	ALA	3.0
1	A	65	CYS	3.0
1	B	166	GLY	3.0
1	A	201	ASN	2.9
1	A	141	ASN	2.8
1	A	197	VAL	2.8
1	B	198	CYS	2.8
1	B	238	ASN	2.8
1	B	205	LYS	2.8
1	B	211	LEU	2.8
1	A	268	PHE	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	267	ALA	2.7
1	B	8	LYS	2.7
1	B	206	CYS	2.6
1	B	160	PHE	2.5
1	B	267	ALA	2.5
1	B	319	ASP	2.4
1	B	285	GLN	2.4
1	B	195	THR	2.4
1	B	184	PHE	2.4
1	B	11	VAL	2.3
1	B	87	VAL	2.3
1	A	210	SER	2.3
1	A	54	ASP	2.2
1	B	31	THR	2.2
1	B	313	THR	2.2
1	B	203	LEU	2.2
1	A	5	TYR	2.2
1	B	264	MET	2.2
1	A	204	ALA	2.2
1	B	140	CYS	2.1
1	B	325	ARG	2.1
1	B	318	LYS	2.1
1	A	4	ILE	2.1
1	B	316	LYS	2.1
1	A	89	THR	2.1
1	B	197	VAL	2.0
1	B	126	ALA	2.0
1	B	4	ILE	2.0
1	B	324	ILE	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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
1	TPO	B	69	11/12	0.90	0.13	43,45,46,46	0
1	TPO	A	69	11/12	0.92	0.12	33,34,35,36	0

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

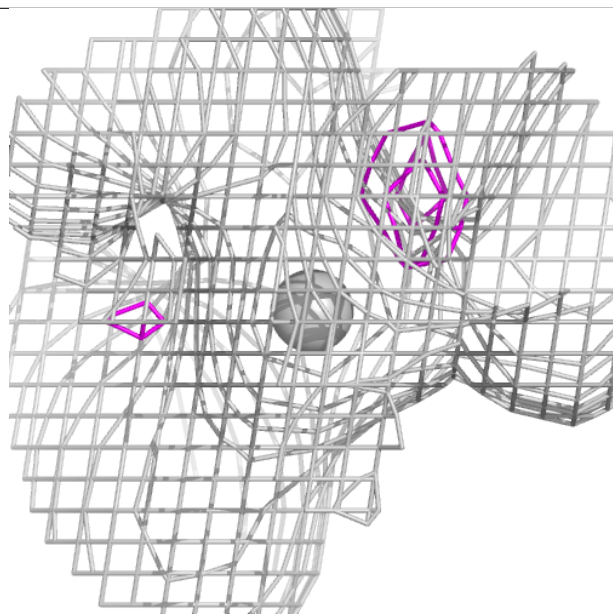
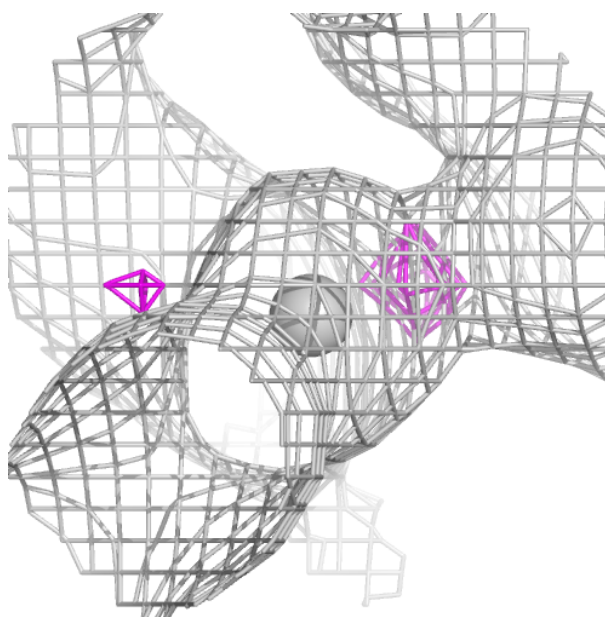
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	AG	B	409	1/1	0.96	0.12	47,47,47,47	1
2	AG	B	408	1/1	0.97	0.06	54,54,54,54	1
2	AG	B	406	1/1	0.97	0.06	61,61,61,61	1
2	AG	B	410	1/1	0.97	0.06	54,54,54,54	1
2	AG	A	403	1/1	0.98	0.05	28,28,28,28	1
2	AG	B	407	1/1	0.98	0.04	46,46,46,46	1
2	AG	A	408	1/1	0.98	0.04	56,56,56,56	1
2	AG	A	409	1/1	0.98	0.14	45,45,45,45	1
2	AG	B	405	1/1	0.98	0.06	62,62,62,62	1
2	AG	B	403	1/1	0.99	0.03	39,39,39,39	1
2	AG	B	404	1/1	0.99	0.04	42,42,42,42	1
2	AG	A	401	1/1	0.99	0.02	26,26,26,26	1
2	AG	B	401	1/1	0.99	0.03	35,35,35,35	1
2	AG	A	402	1/1	1.00	0.02	38,38,38,38	1
2	AG	A	404	1/1	1.00	0.04	35,35,35,35	1
2	AG	A	405	1/1	1.00	0.02	49,49,49,49	1
2	AG	B	402	1/1	1.00	0.02	47,47,47,47	1
2	AG	A	406	1/1	1.00	0.02	55,55,55,55	1
2	AG	A	407	1/1	1.00	0.02	46,46,46,46	1

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.

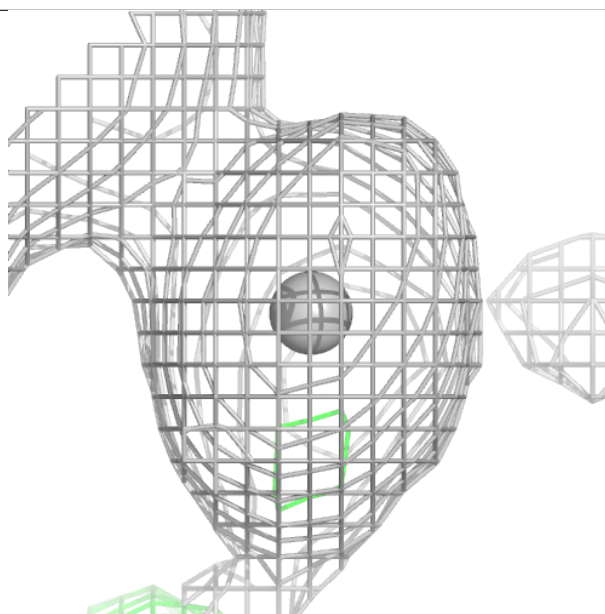
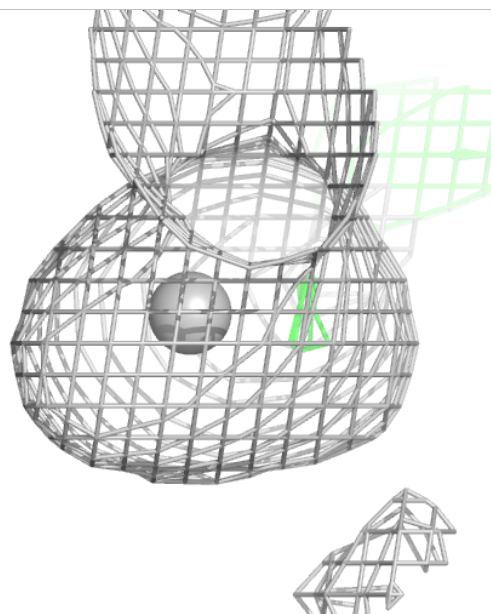
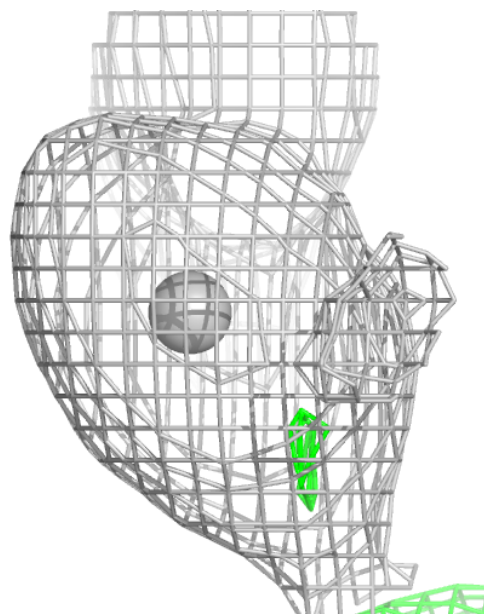
Electron density around AG B 409:

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



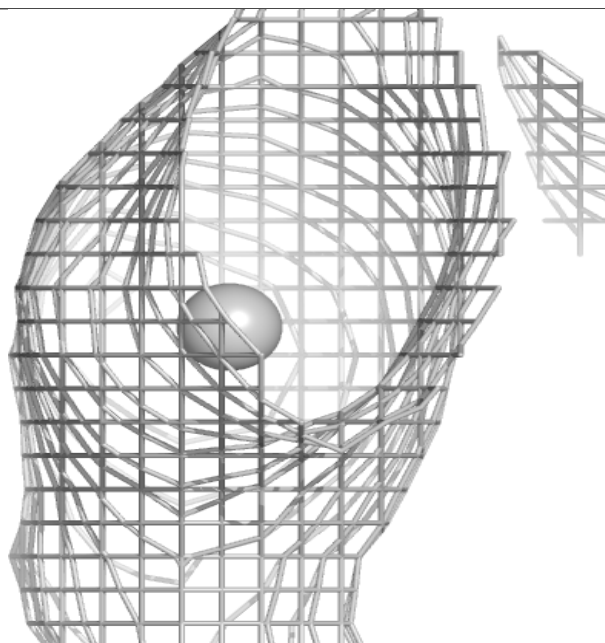
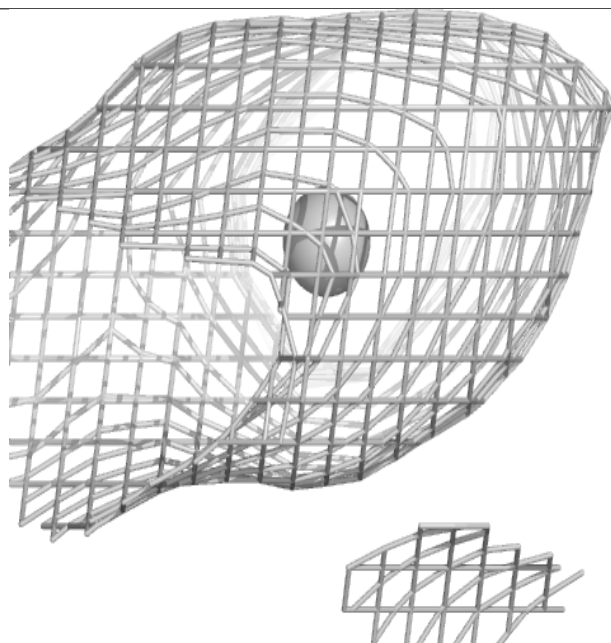
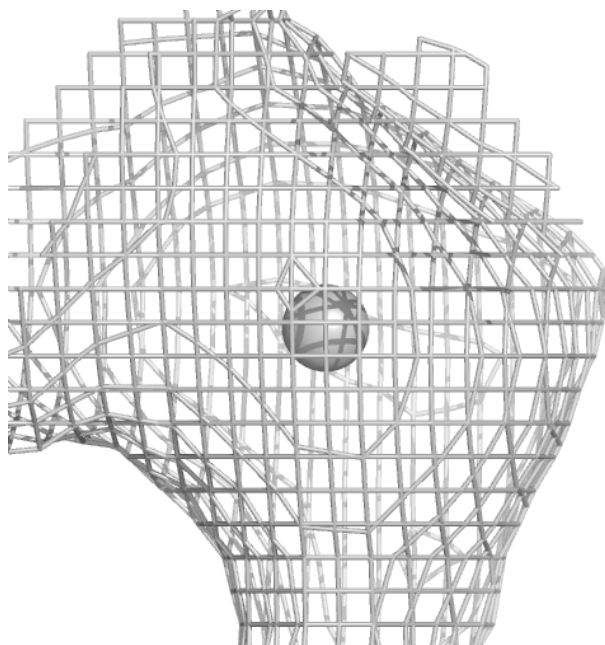
Electron density around AG B 408:

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



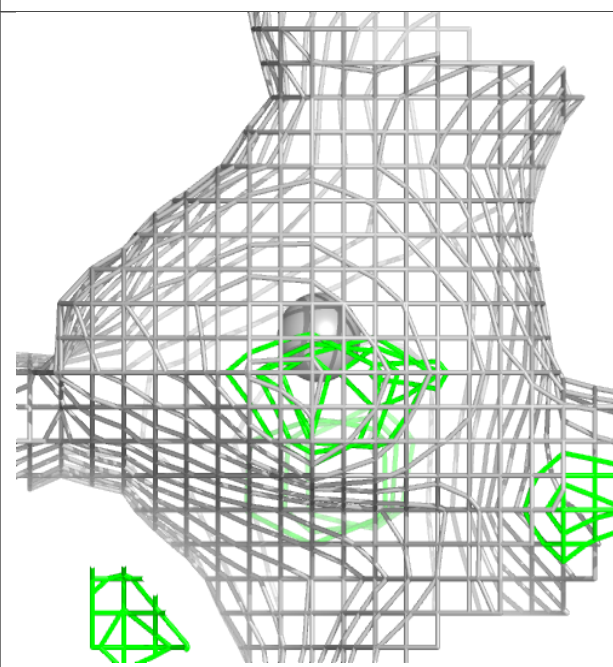
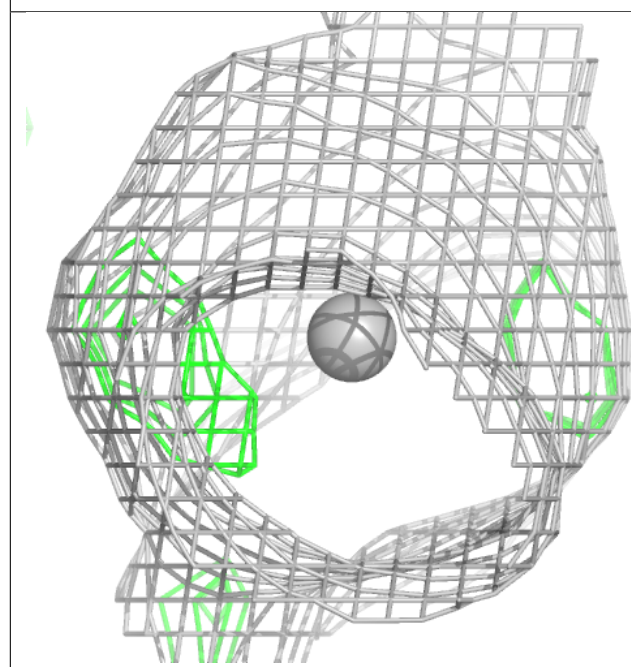
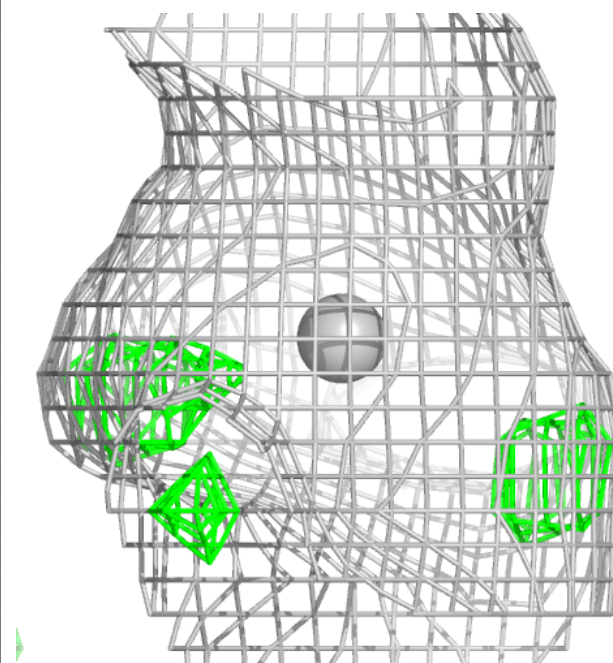
Electron density around AG B 406:

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



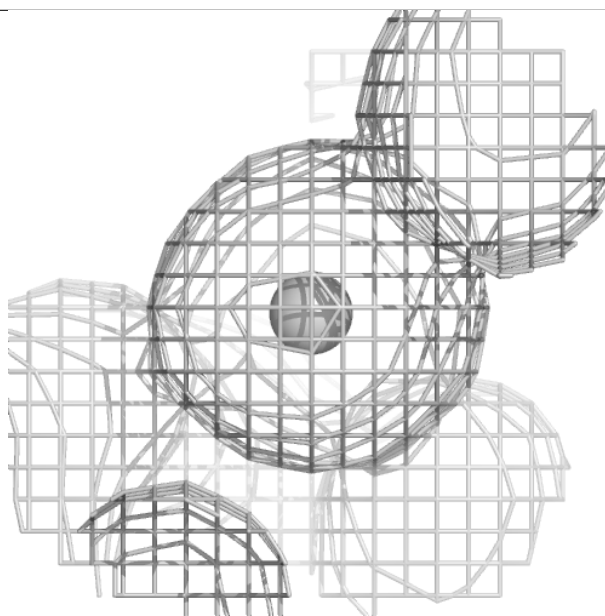
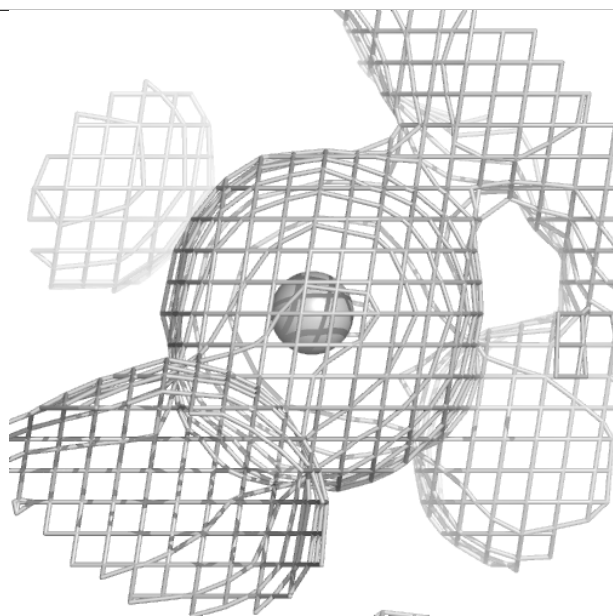
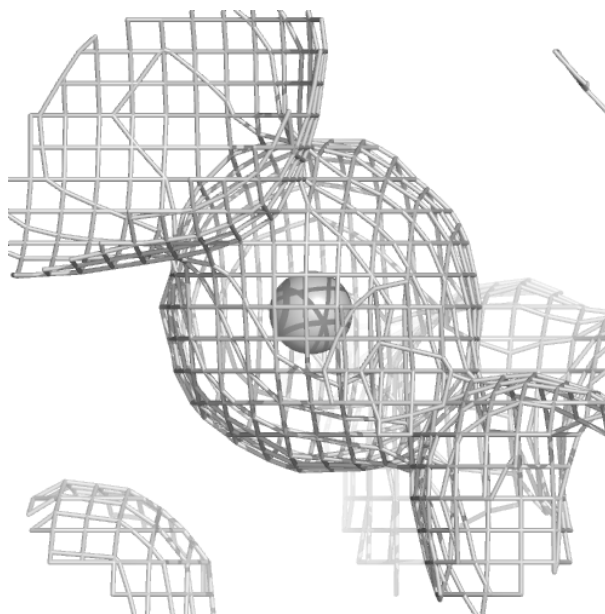
Electron density around AG B 410:

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



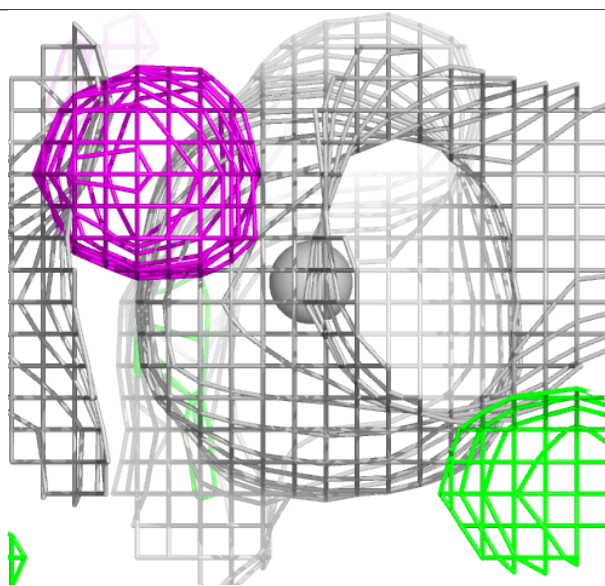
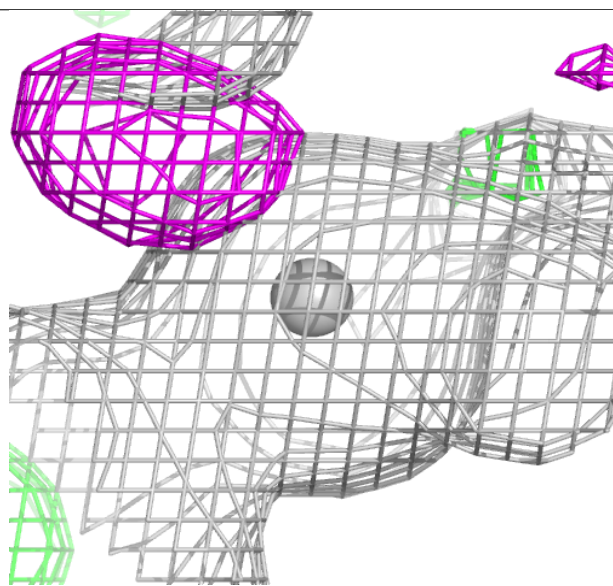
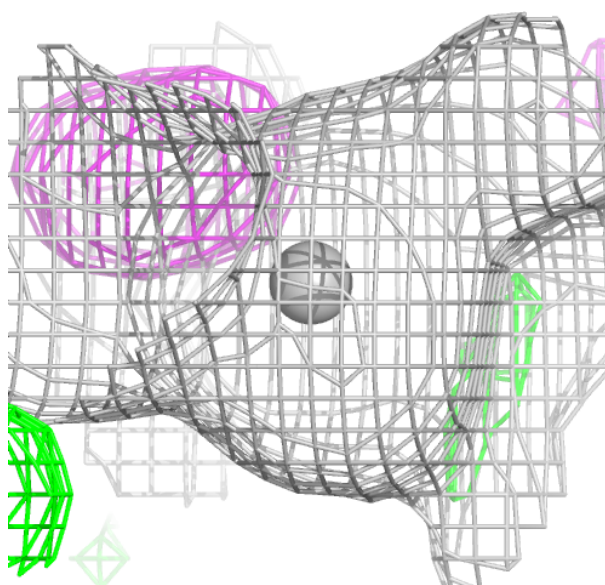
Electron density around AG A 403:

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



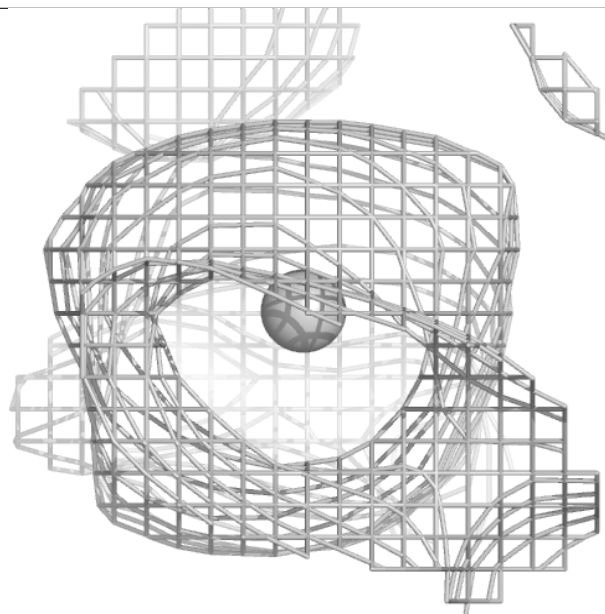
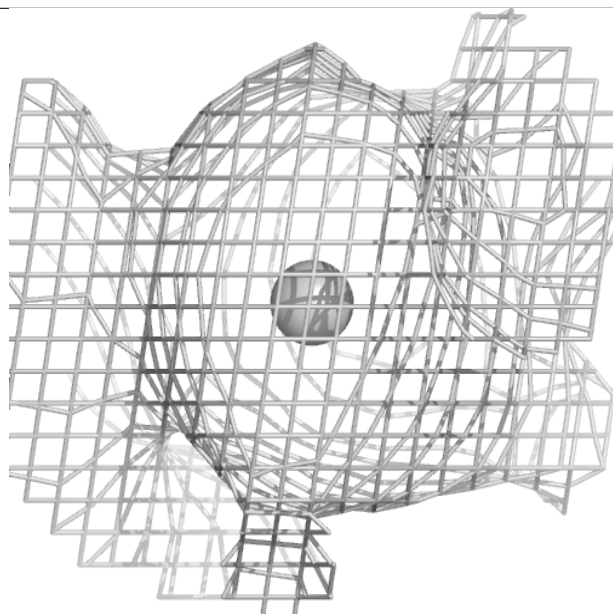
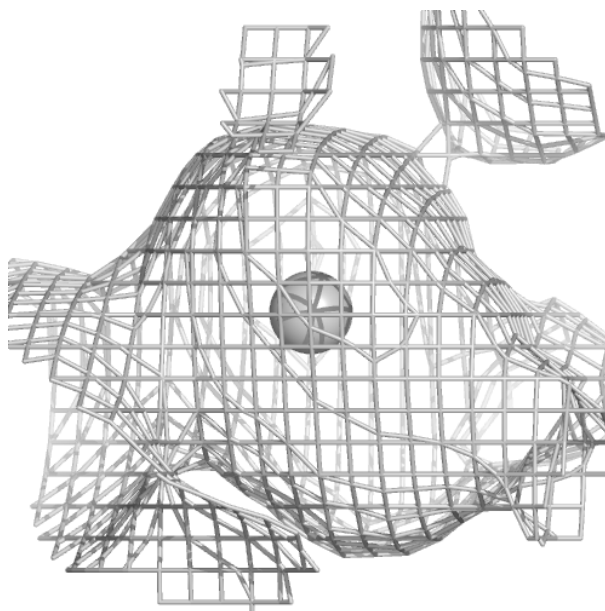
Electron density around AG B 407:

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



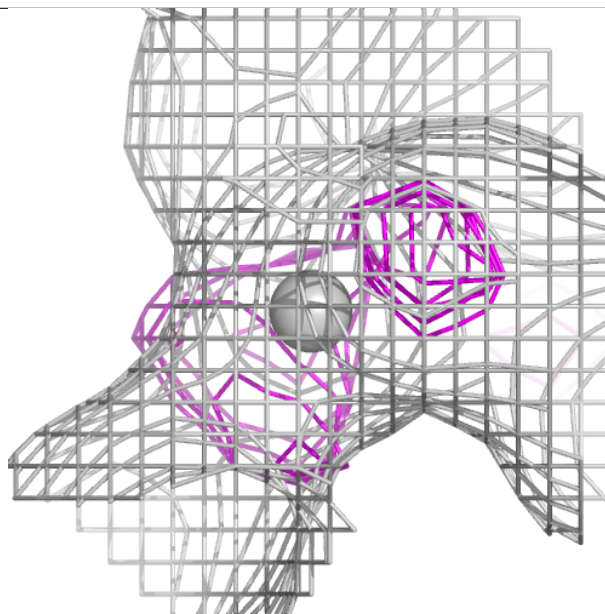
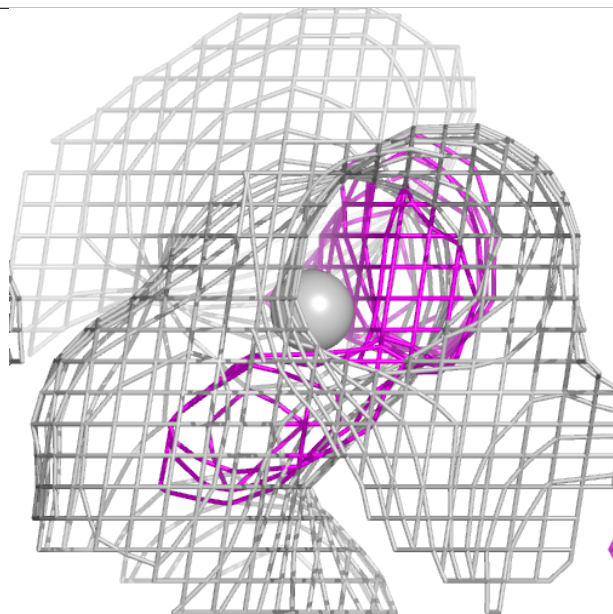
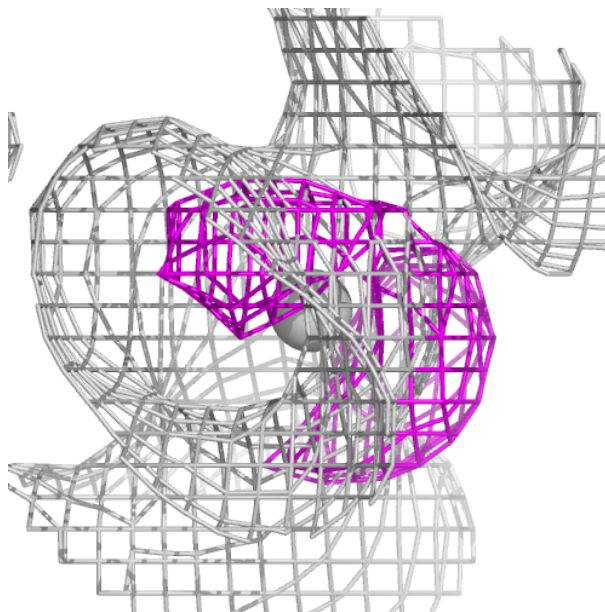
Electron density around AG A 408:

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



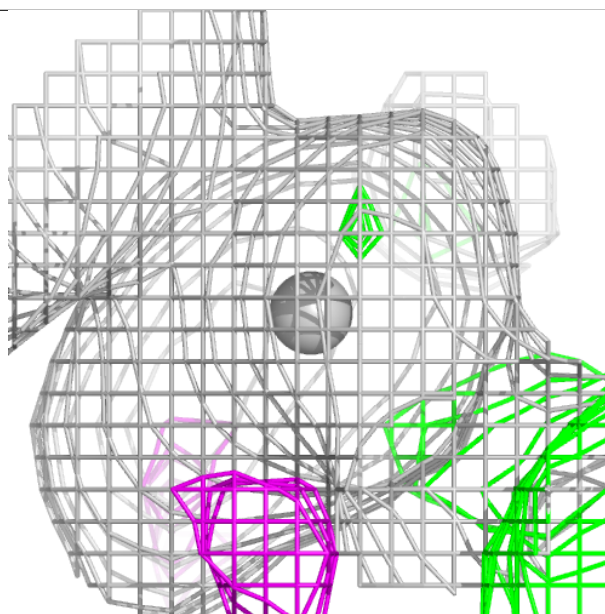
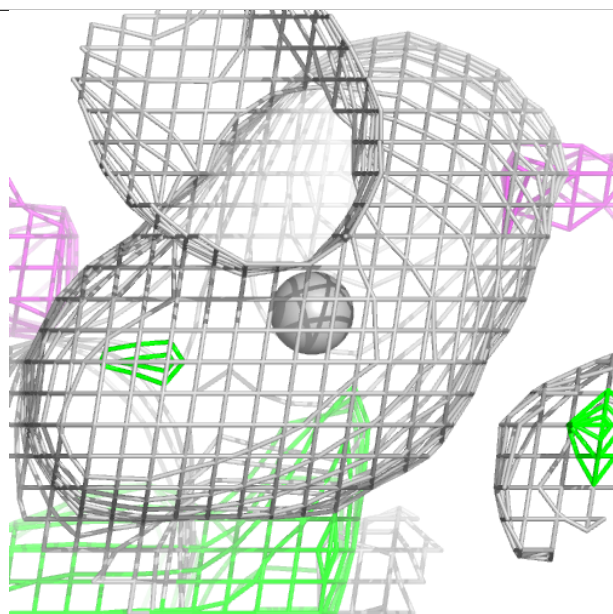
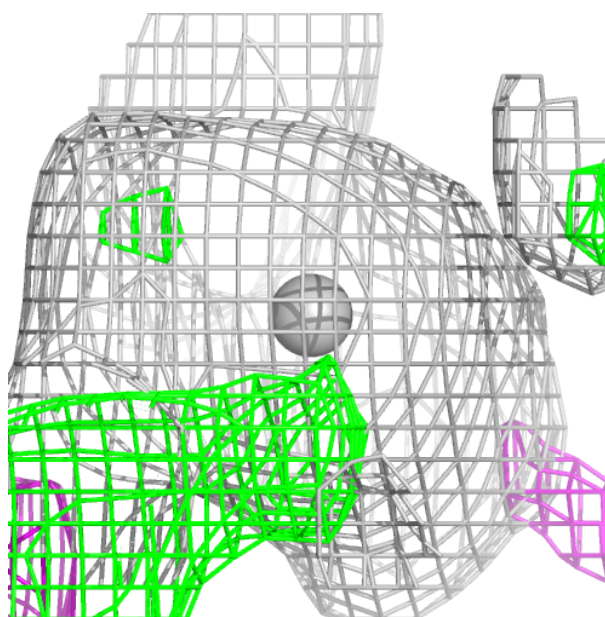
Electron density around AG A 409:

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



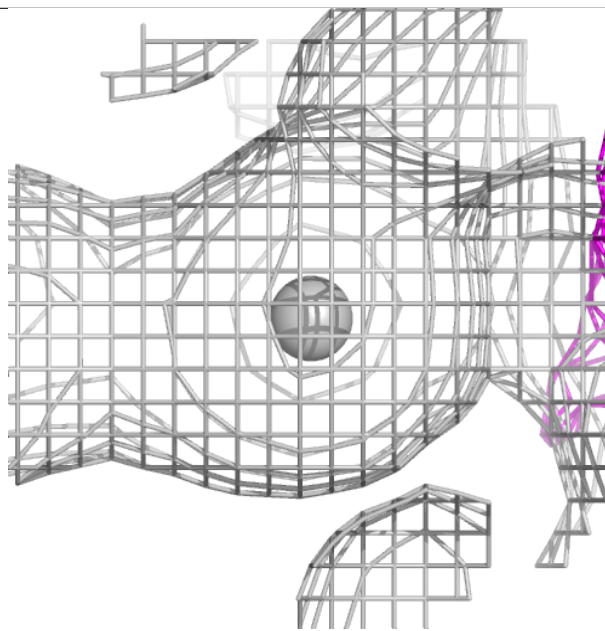
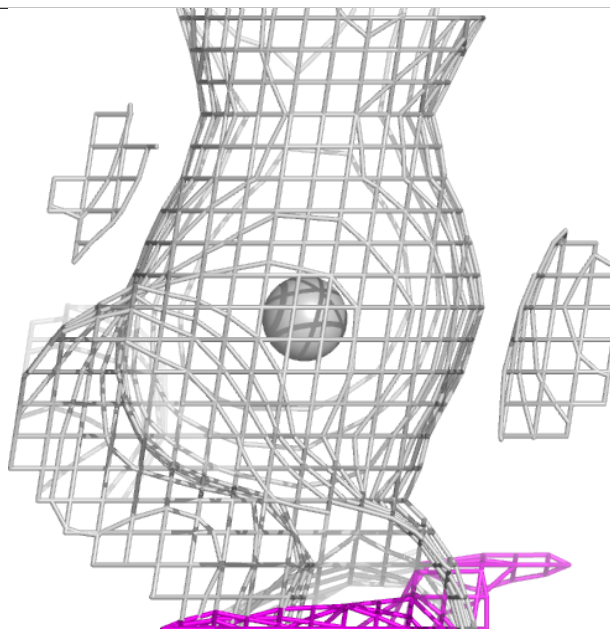
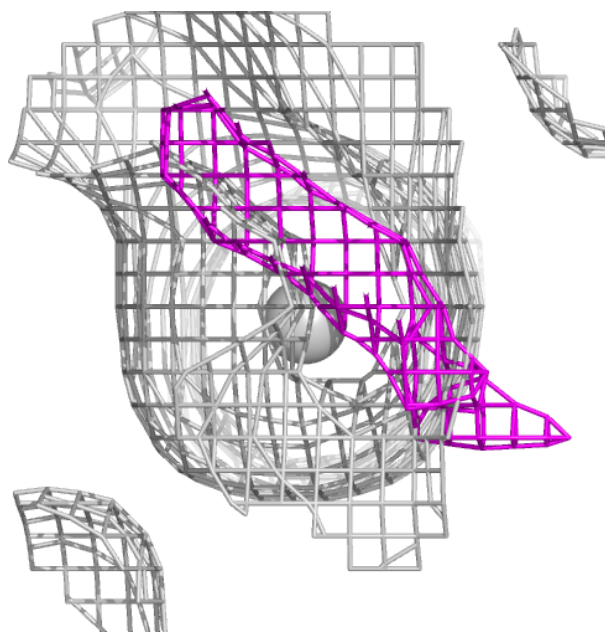
Electron density around AG B 405:

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



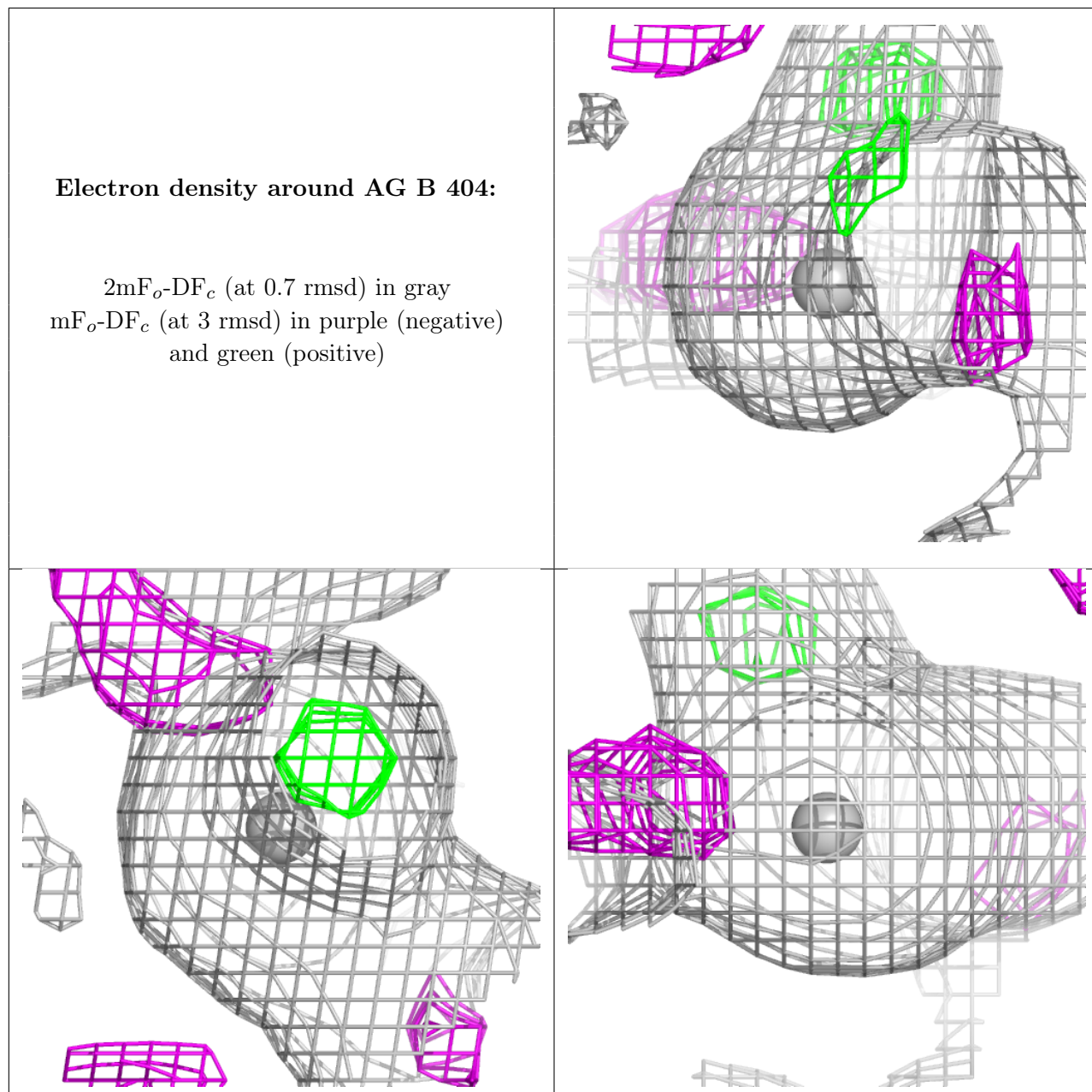
Electron density around AG B 403:

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



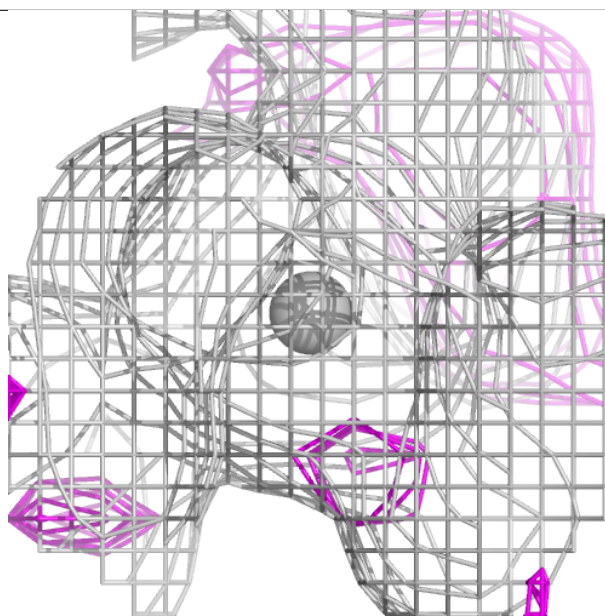
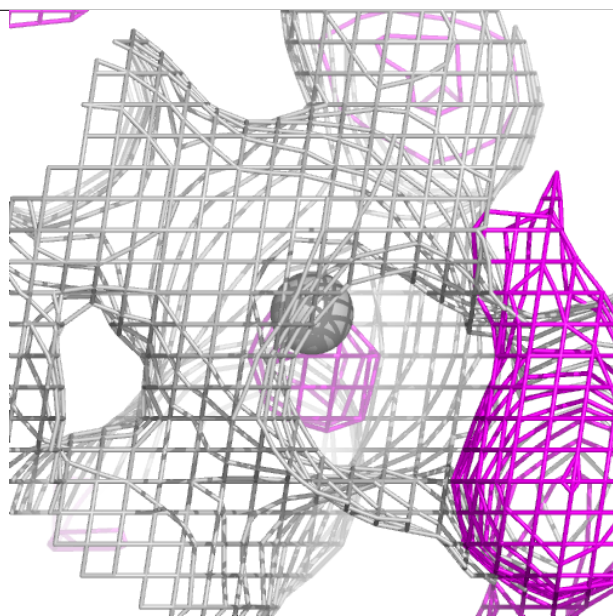
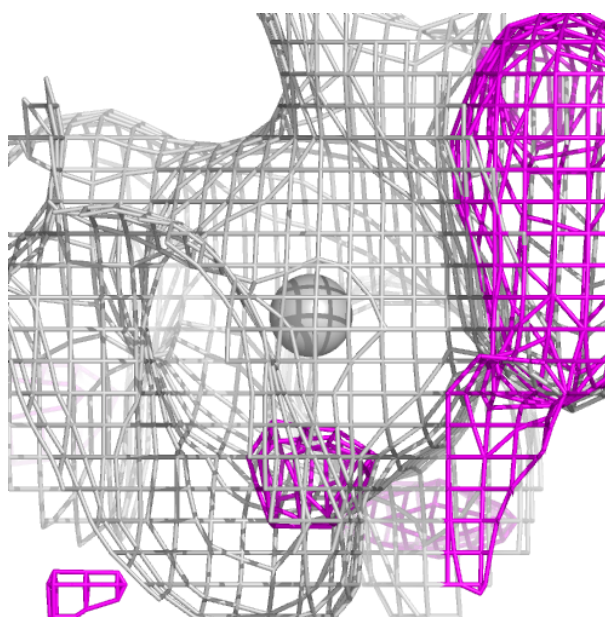
Electron density around AG B 404:

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



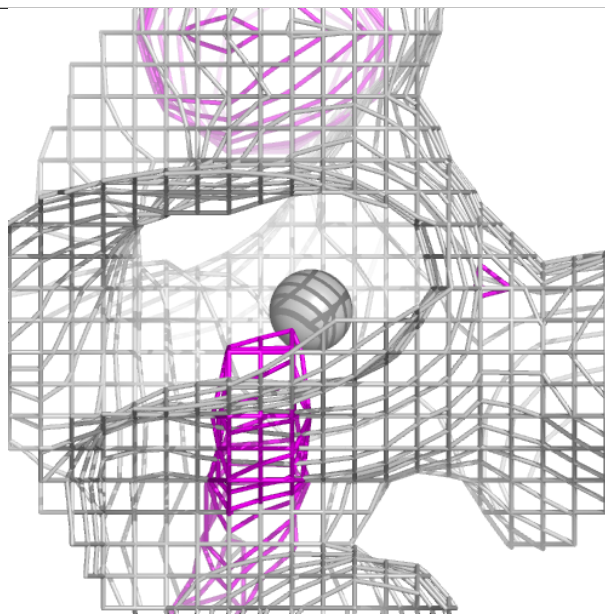
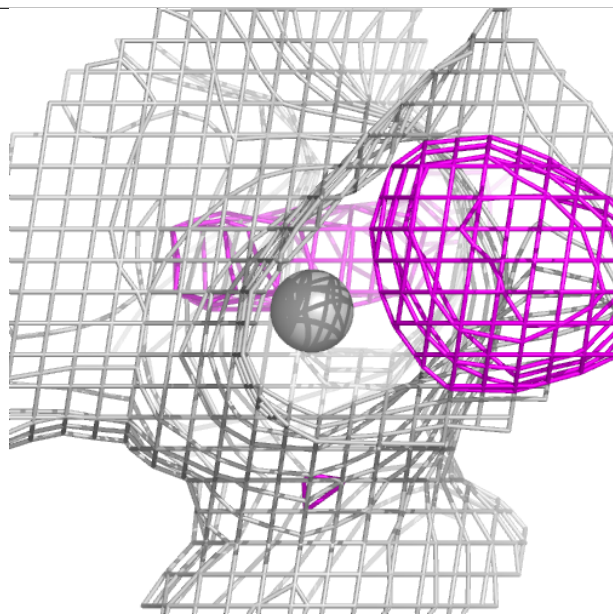
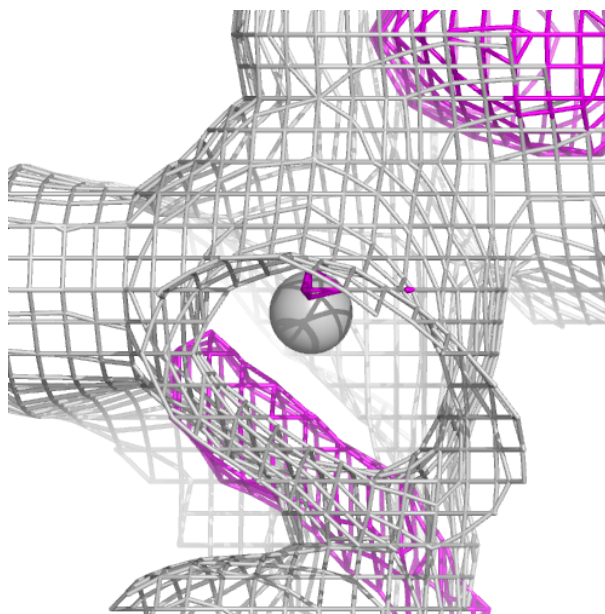
Electron density around AG A 401:

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



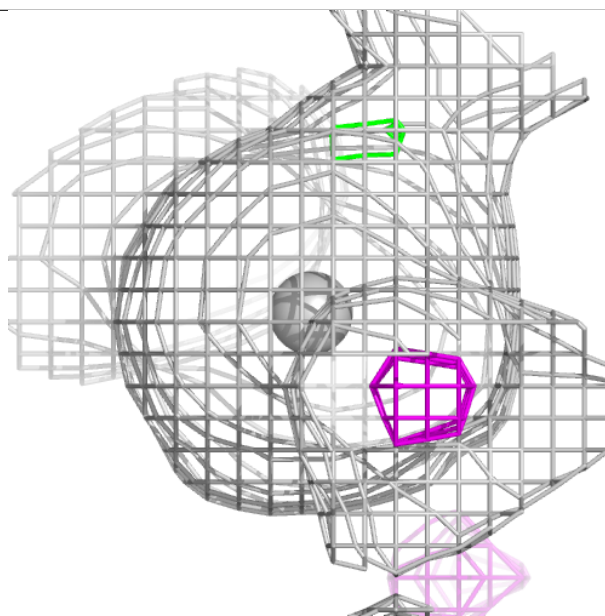
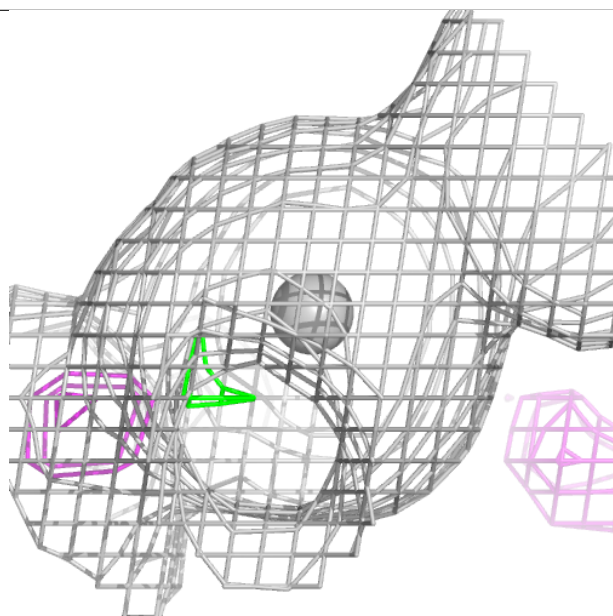
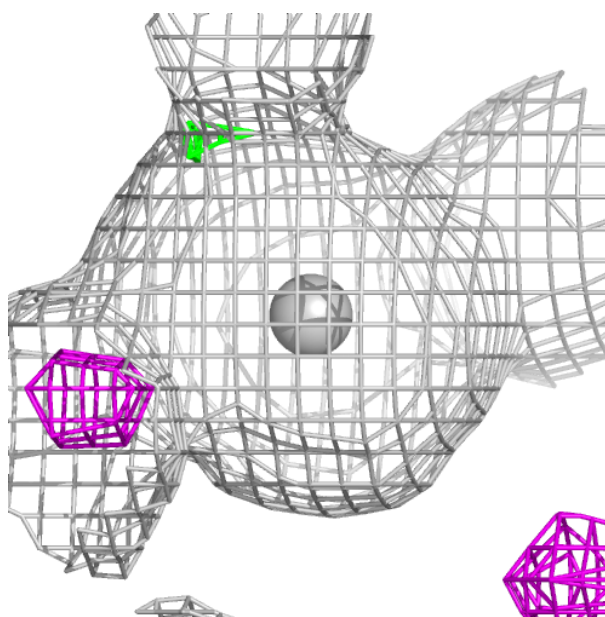
Electron density around AG B 401:

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



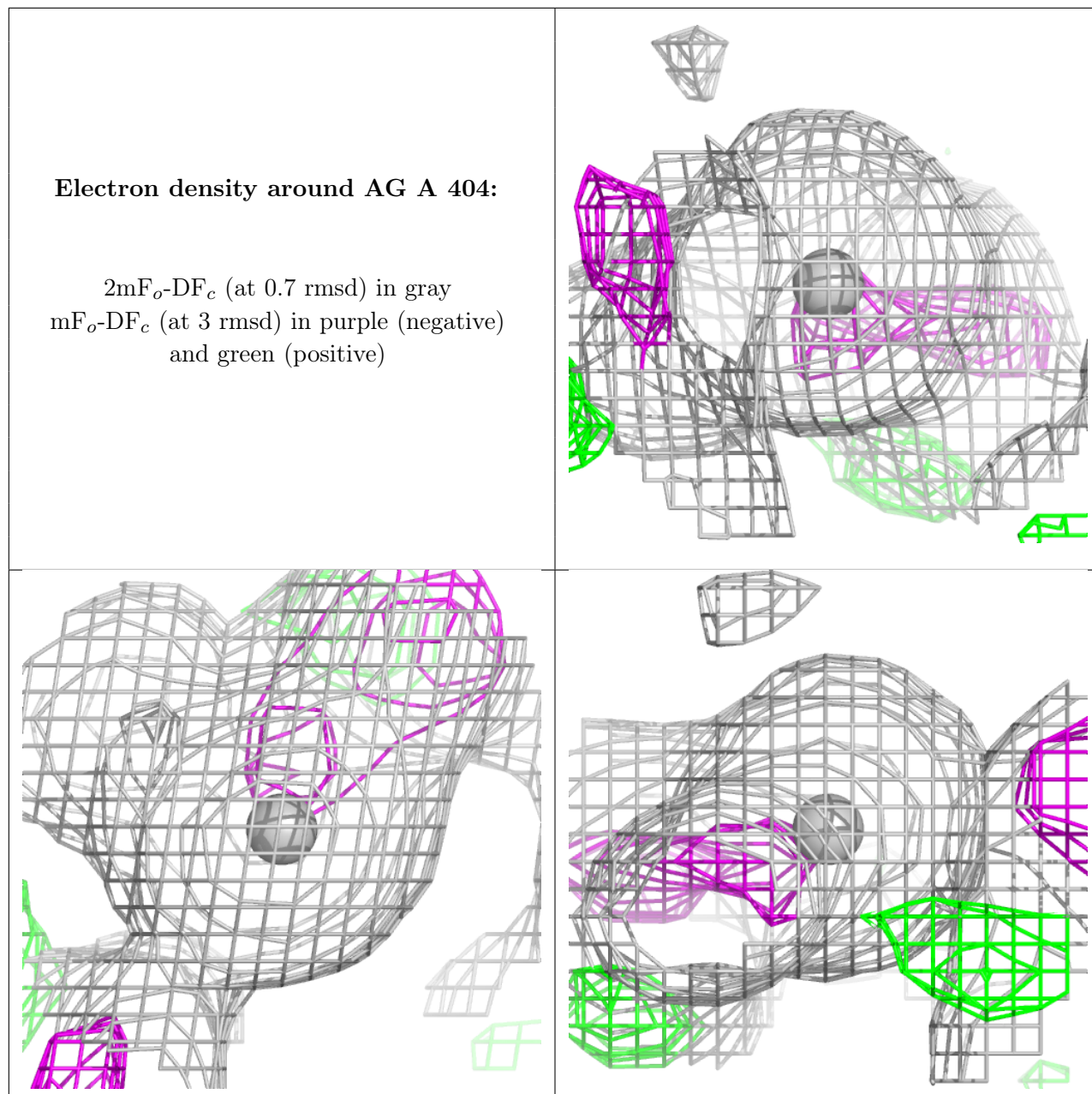
Electron density around AG A 402:

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



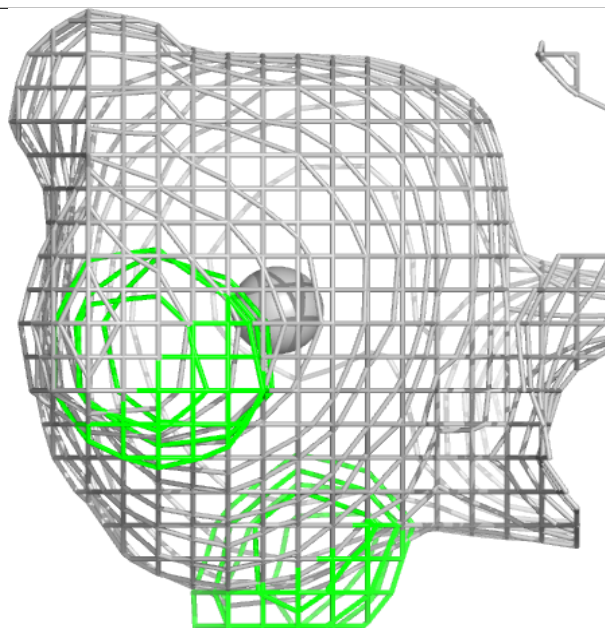
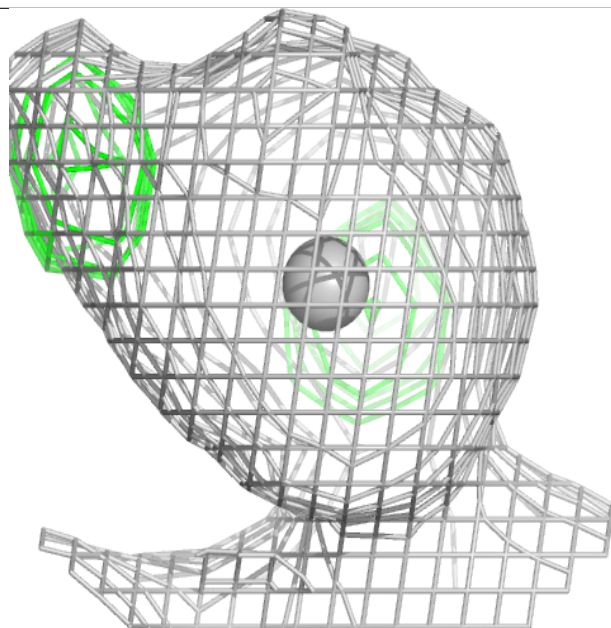
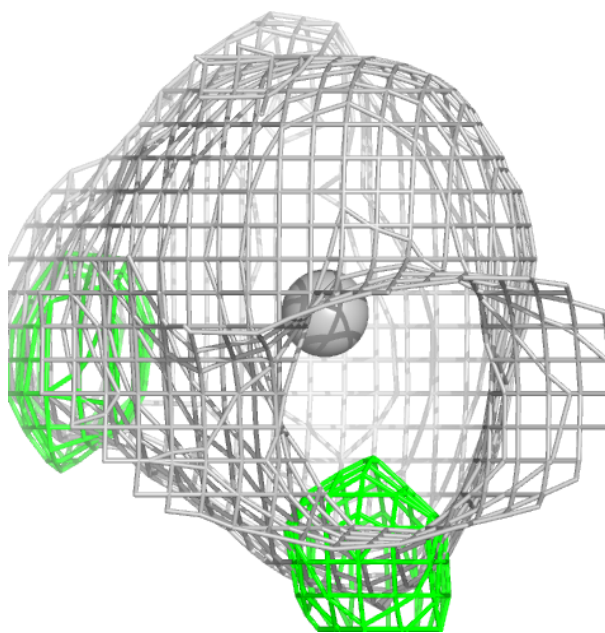
Electron density around AG A 404:

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



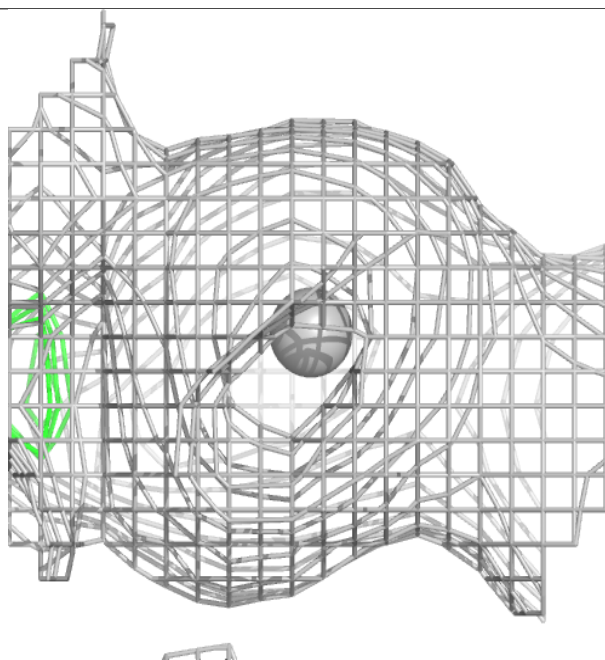
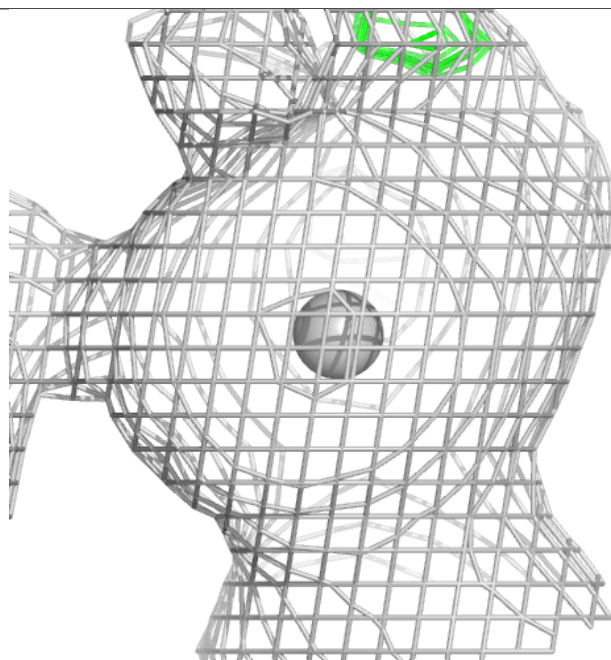
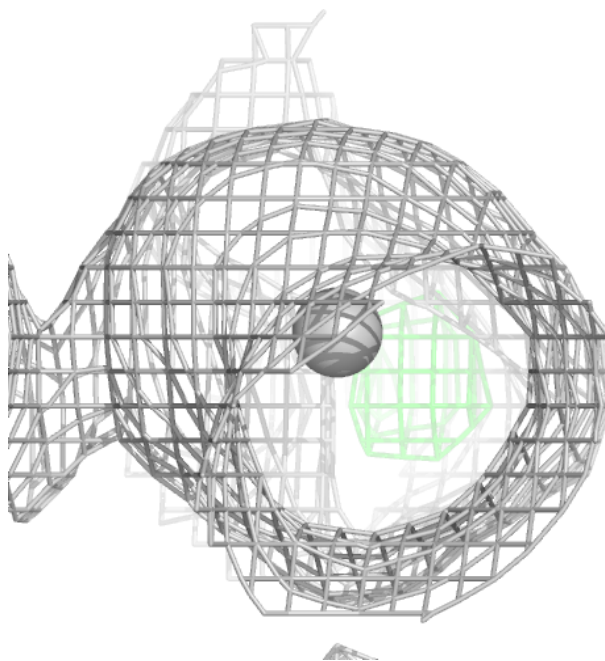
Electron density around AG A 405:

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



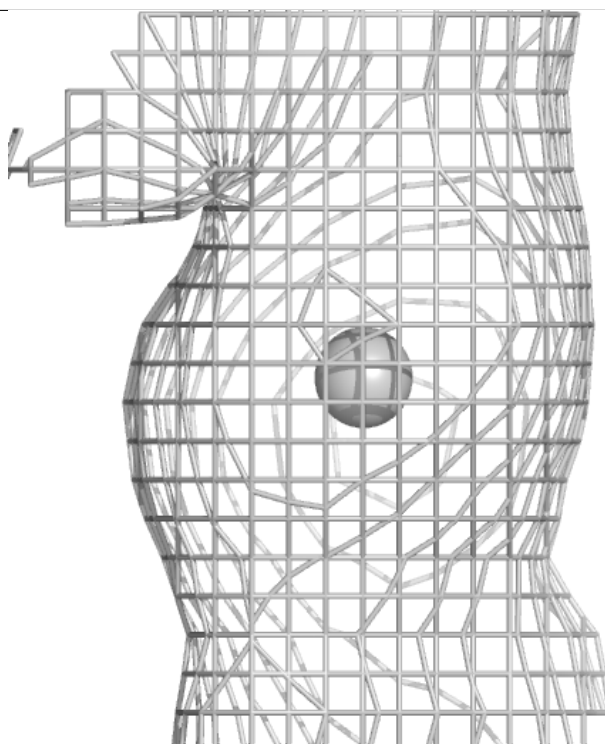
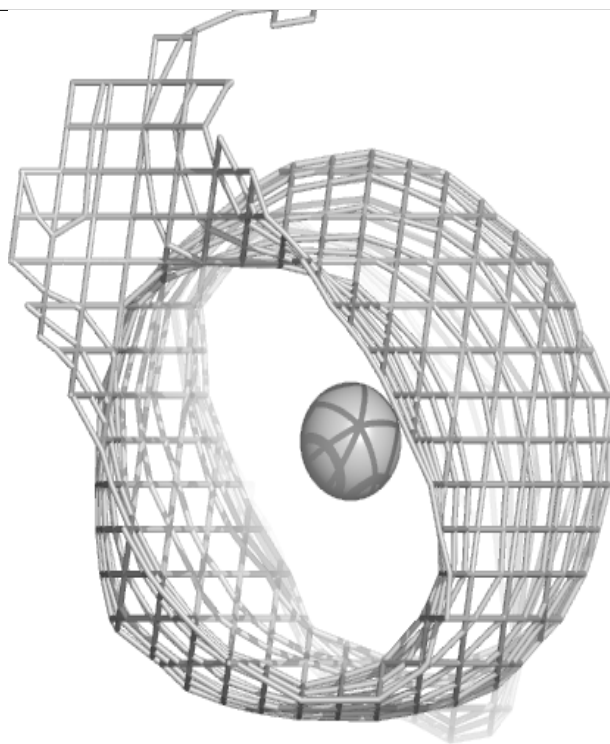
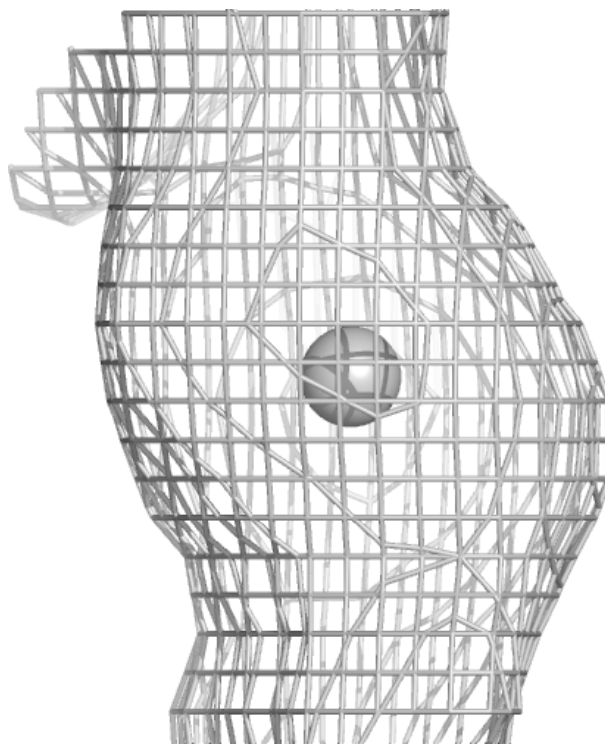
Electron density around AG B 402:

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



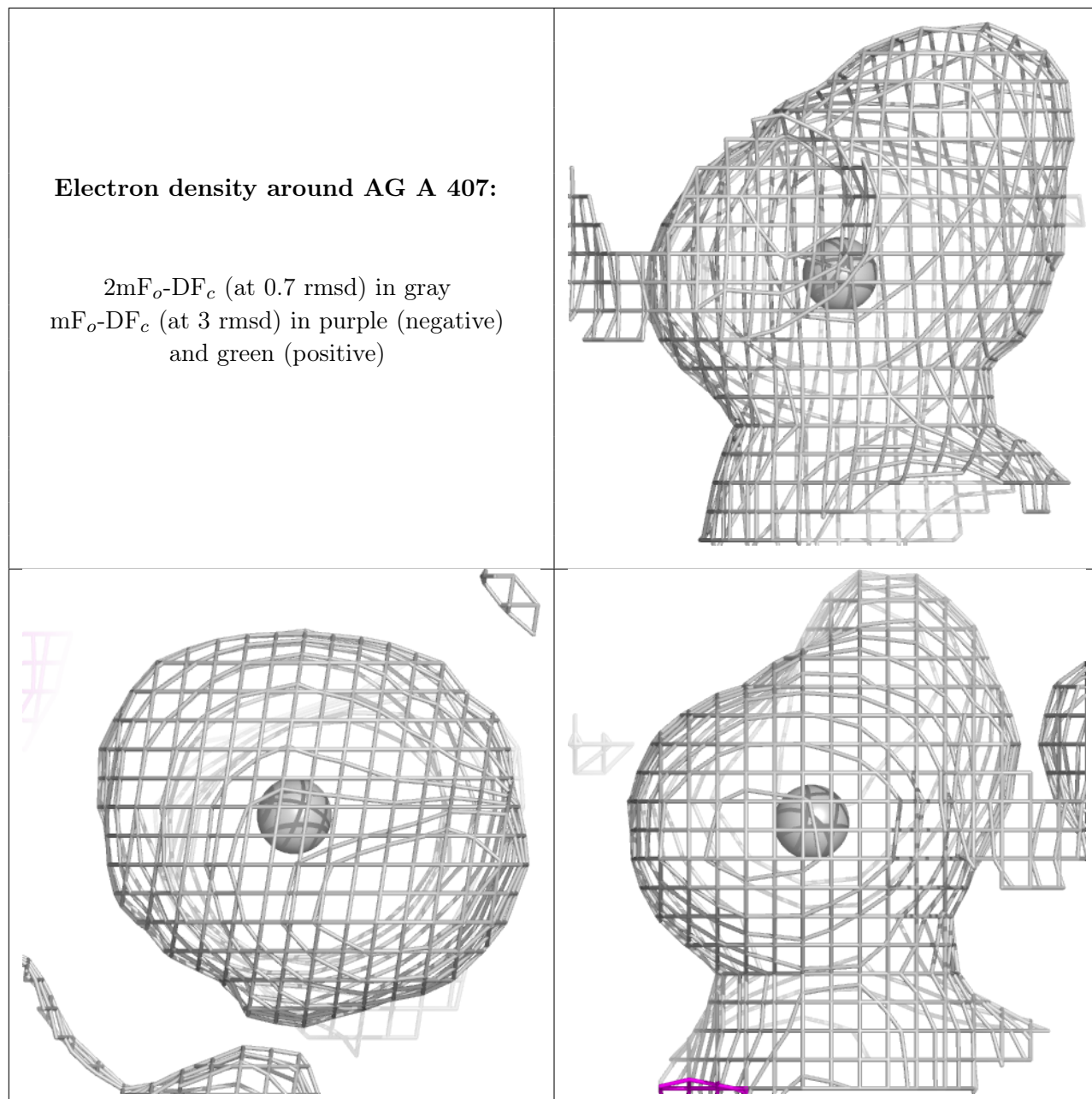
Electron density around AG A 406:

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



Electron density around AG A 407:

$2mF_o-DF_c$ (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.