



Full wwPDB X-ray Structure Validation Report ⓘ

Dec 5, 2022 – 10:02 AM EST

PDB ID : 7SZ8
Title : Crystal structure of human CELSR1 EC4-7
Authors : Tamilselvan, E.; Sotomayor, M.
Deposited on : 2021-11-26
Resolution : 2.34 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 : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.31.2
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

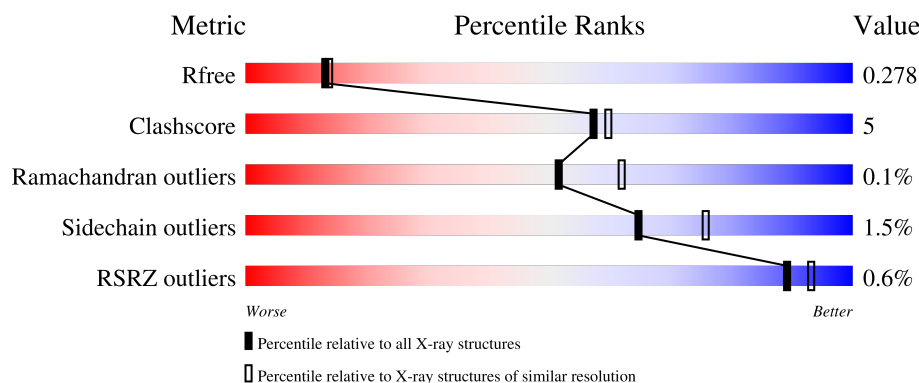
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION



The reported resolution of this entry is 2.34 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}	130704	2096 (2.36-2.32)
Clashscore	141614	2193 (2.36-2.32)
Ramachandran outliers	138981	2159 (2.36-2.32)
Sidechain outliers	138945	2160 (2.36-2.32)
RSRZ outliers	127900	2067 (2.36-2.32)

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	449	 82% 11% • 6%
1	B	449	 82% 10% • 7%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 6655 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 Cadherin EGF LAG seven-pass G-type receptor 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	420	Total	C	N	O	S	0	0	0
			3250	2021	551	672	6			
1	B	416	Total	C	N	O	S	0	1	0
			3228	2007	548	667	6			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	336	MET	-	initiating methionine	UNP Q9NYQ6
A	777	LEU	-	expression tag	UNP Q9NYQ6
A	778	GLU	-	expression tag	UNP Q9NYQ6
A	779	HIS	-	expression tag	UNP Q9NYQ6
A	780	HIS	-	expression tag	UNP Q9NYQ6
A	781	HIS	-	expression tag	UNP Q9NYQ6
A	782	HIS	-	expression tag	UNP Q9NYQ6
A	783	HIS	-	expression tag	UNP Q9NYQ6
A	784	HIS	-	expression tag	UNP Q9NYQ6
B	336	MET	-	initiating methionine	UNP Q9NYQ6
B	777	LEU	-	expression tag	UNP Q9NYQ6
B	778	GLU	-	expression tag	UNP Q9NYQ6
B	779	HIS	-	expression tag	UNP Q9NYQ6
B	780	HIS	-	expression tag	UNP Q9NYQ6
B	781	HIS	-	expression tag	UNP Q9NYQ6
B	782	HIS	-	expression tag	UNP Q9NYQ6
B	783	HIS	-	expression tag	UNP Q9NYQ6
B	784	HIS	-	expression tag	UNP Q9NYQ6

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	8	Total Ca 8 8	0	0
2	B	8	Total Ca 8 8	0	0

- Molecule 3 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Na 1 1	0	0
3	B	1	Total Na 1 1	0	0

- Molecule 4 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total Mg 1 1	0	0

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Cl 1 1	0	0

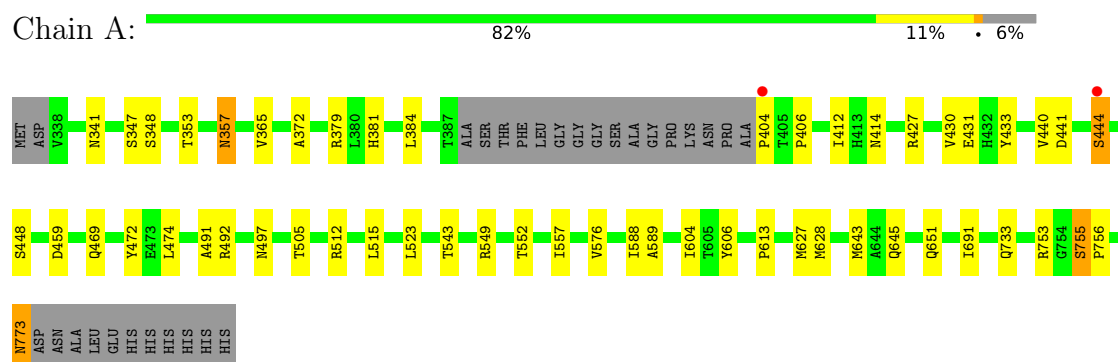
- Molecule 6 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	89	Total O 89 89	0	0
6	B	68	Total O 68 68	0	0

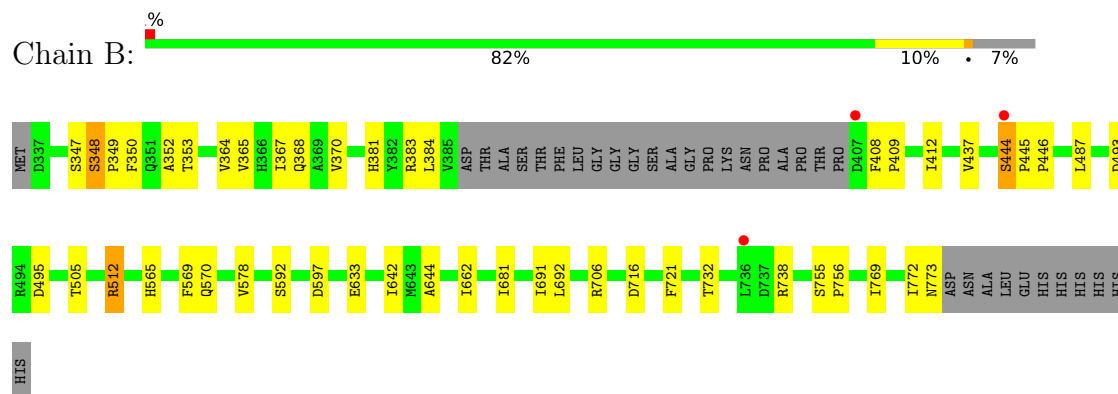
3 Residue-property plots

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: Cadherin EGF LAG seven-pass G-type receptor 1



- Molecule 1: Cadherin EGF LAG seven-pass G-type receptor 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	42.38Å 76.94Å 92.74Å 89.83° 87.78° 76.23°	Depositor
Resolution (Å)	46.38 – 2.34 46.34 – 2.34	Depositor EDS
% Data completeness (in resolution range)	84.6 (46.38-2.34) 84.7 (46.34-2.34)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	7.64 (at 2.34Å)	Xtriage
Refinement program	REFMAC 5.8.0267	Depositor
R, R_{free}	0.213 , 0.279 0.218 , 0.278	Depositor DCC
R_{free} test set	1974 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å ²)	26.3	Xtriage
Anisotropy	1.352	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 32.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.020 for -h,-h+k,-l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	6655	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.03% 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: CL, NA, MG, 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	0.77	0/3318	0.98	2/4542 (0.0%)
1	B	0.78	1/3297 (0.0%)	0.95	0/4511
All	All	0.77	1/6615 (0.0%)	0.97	2/9053 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	1
All	All	0	3

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	633	GLU	CD-OE2	6.59	1.32	1.25

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	357	ASN	CB-CA-C	-5.71	98.98	110.40
1	A	549	ARG	NE-CZ-NH2	-5.68	117.46	120.30

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	348	SER	Peptide
1	A	444	SER	Peptide
1	B	444	SER	Peptide

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	3250	0	3086	31	0
1	B	3228	0	3065	36	0
2	A	8	0	0	0	0
2	B	8	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	1	0	0	0	0
5	A	1	0	0	0	0
6	A	89	0	0	1	0
6	B	68	0	0	1	0
All	All	6655	0	6151	62	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 (62) 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:352:ALA:HB2	1:B:365:VAL:HG21	1.68	0.75
1:B:755:SER:H	1:B:756:PRO:HD2	1.54	0.73
1:B:738:ARG:NH1	1:B:769:ILE:O	2.27	0.67
1:B:348:SER:HB2	1:B:349:PRO:HD2	1.76	0.67
1:A:651:GLN:O	6:A:901:HOH:O	2.15	0.64
1:B:348:SER:CB	1:B:349:PRO:CD	2.77	0.63
1:A:773:ASN:HD22	1:A:773:ASN:H	1.47	0.62
1:A:733:GLN:HG2	1:B:370:VAL:HG21	1.81	0.61
1:B:348:SER:HB2	1:B:349:PRO:CD	2.30	0.61
1:B:755:SER:N	1:B:756:PRO:HD2	2.15	0.61
1:A:469:GLN:HB2	1:A:472:TYR:CZ	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:576:VAL:HG21	1:A:588:ILE:O	2.03	0.58
1:A:341:ASN:CG	1:A:372:ALA:HB3	2.24	0.58
1:A:753:ARG:NH1	1:B:353:THR:OG1	2.34	0.56
1:B:367:ILE:HG21	1:B:437:VAL:HG11	1.87	0.56
1:B:384:LEU:CD1	1:B:412:ILE:HG22	2.35	0.56
1:B:512:ARG:N	1:B:512:ARG:HD2	2.16	0.53
1:A:353:THR:OG1	1:B:706:ARG:NH1	2.41	0.53
1:A:613:PRO:HB2	1:A:628:MET:SD	2.50	0.52
1:A:691:ILE:N	1:A:691:ILE:HD12	2.25	0.51
1:A:491:ALA:O	1:A:492:ARG:NH1	2.43	0.51
1:B:352:ALA:HB2	1:B:365:VAL:CG2	2.39	0.51
1:B:578:VAL:O	1:B:662:ILE:HA	2.12	0.49
1:B:692:LEU:C	1:B:692:LEU:HD12	2.32	0.49
1:A:384:LEU:HG	1:A:412:ILE:HG22	1.94	0.49
1:B:569:PHE:CZ	1:B:644:ALA:HB2	2.48	0.49
1:A:627:MET:CE	1:A:627:MET:HA	2.42	0.49
1:B:642:ILE:HD12	1:B:642:ILE:N	2.28	0.48
1:A:515:LEU:HA	1:A:523:LEU:O	2.14	0.48
1:A:459:ASP:HB3	1:A:497:ASN:ND2	2.29	0.47
1:B:755:SER:O	1:B:756:PRO:C	2.51	0.47
1:A:543:THR:HG22	1:A:552:THR:OG1	2.14	0.47
1:B:691:ILE:HG22	1:B:692:LEU:HG	1.96	0.47
1:B:347:SER:HB2	1:B:350:PHE:CZ	2.50	0.47
1:A:357:ASN:HB3	1:B:755:SER:OG	2.14	0.47
1:A:474:LEU:HD11	1:A:557:ILE:HG12	1.97	0.46
1:A:379:ARG:O	1:A:441:ASP:HA	2.16	0.46
1:A:430:VAL:HG11	1:A:433:TYR:CE1	2.51	0.46
1:B:570:GLN:HG3	1:B:592:SER:O	2.16	0.45
1:B:772:ILE:O	1:B:773:ASN:HB2	2.16	0.45
1:B:364:VAL:O	1:B:365:VAL:HG23	2.17	0.45
1:B:565:HIS:HD2	1:B:597:ASP:OD1	2.00	0.45
1:A:427:ARG:HD2	1:A:431:GLU:OE2	2.17	0.45
1:B:408:PHE:N	1:B:409:PRO:CD	2.80	0.44
1:B:381:HIS:CD2	1:B:383:ARG:HG3	2.52	0.44
1:A:643:MET:CE	1:A:645:GLN:HE21	2.31	0.44
1:A:755:SER:O	1:A:756:PRO:C	2.56	0.43
1:B:691:ILE:HD11	1:B:732:THR:HG23	1.99	0.43
1:B:493:ASP:OD1	1:B:495:ASP:HB2	2.18	0.42
1:B:716:ASP:HB2	1:B:721:PHE:O	2.19	0.42
1:A:406:PRO:HD2	1:A:430:VAL:HG21	2.02	0.42
1:B:384:LEU:HD12	1:B:384:LEU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:445:PRO:HA	1:B:446:PRO:HD3	1.91	0.41
1:A:440:VAL:HG22	1:A:448:SER:HB3	2.03	0.41
1:A:381:HIS:HA	1:A:414:ASN:O	2.20	0.41
1:A:627:MET:HA	1:A:627:MET:HE2	2.02	0.41
1:B:368:GLN:NE2	6:B:917:HOH:O	2.54	0.41
1:A:505:THR:OG1	1:A:543:THR:HG23	2.21	0.41
1:A:588:ILE:O	1:A:589:ALA:HB2	2.20	0.41
1:A:604:ILE:HG21	1:A:606:TYR:CE1	2.56	0.40
1:A:753:ARG:HH12	1:B:353:THR:HG1	1.65	0.40
1:B:681:ILE:HD12	1:B:681:ILE:HA	1.90	0.40

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	416/449 (93%)	398 (96%)	18 (4%)	0	100	100
1	B	413/449 (92%)	392 (95%)	20 (5%)	1 (0%)	47	55
All	All	829/898 (92%)	790 (95%)	38 (5%)	1 (0%)	51	62

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	348	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	366/387 (95%)	359 (98%)	7 (2%)	57	68
1	B	363/387 (94%)	359 (99%)	4 (1%)	73	83
All	All	729/774 (94%)	718 (98%)	11 (2%)	65	76

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	347	SER
1	A	365	VAL
1	A	404	PRO
1	A	444	SER
1	A	512	ARG
1	A	755	SER
1	A	773	ASN
1	B	444	SER
1	B	487	LEU
1	B	505	THR
1	B	512	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (17) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	341	ASN
1	A	377	ASN
1	A	381	HIS
1	A	497	ASN
1	A	537	GLN
1	A	554	HIS
1	A	558	ASN
1	A	609	GLN
1	A	645	GLN
1	A	773	ASN
1	B	368	GLN
1	B	477	ASN
1	B	497	ASN
1	B	537	GLN
1	B	565	HIS
1	B	609	GLN
1	B	773	ASN

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 20 ligands modelled in this entry, 20 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 [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	420/449 (93%)	-0.17	2 (0%) 91 95	22, 35, 65, 85	0
1	B	416/449 (92%)	-0.12	3 (0%) 87 92	23, 38, 67, 82	0
All	All	836/898 (93%)	-0.14	5 (0%) 89 93	22, 36, 66, 85	0

All (5) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	407	ASP	3.9
1	A	444	SER	3.6
1	A	404	PRO	2.7
1	B	444	SER	2.7
1	B	736	LEU	2.7

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 monosaccharides in this entry.

6.4 Ligands [i](#)

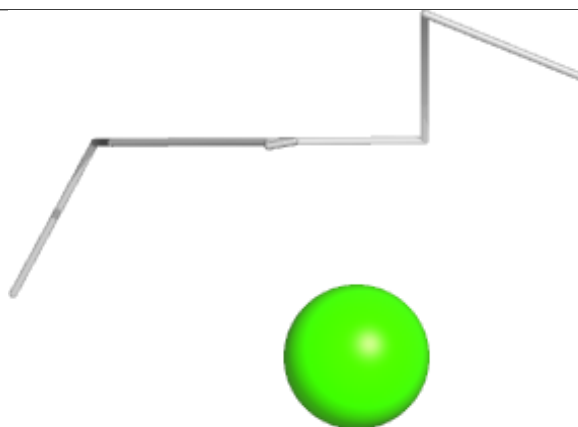
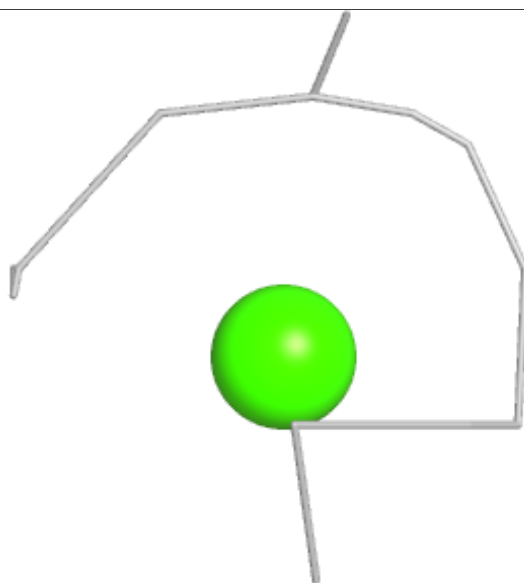
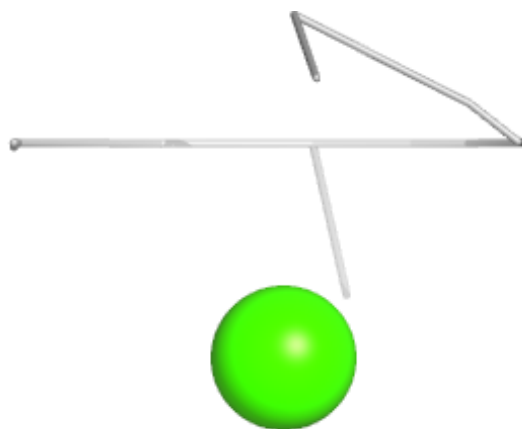
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
4	MG	A	810	1/1	0.95	0.05	30,30,30,30	0
5	CL	A	811	1/1	0.95	0.11	41,41,41,41	0
3	NA	B	805	1/1	0.96	0.07	38,38,38,38	0
3	NA	A	805	1/1	0.97	0.10	32,32,32,32	0
2	CA	B	801	1/1	0.97	0.08	58,58,58,58	0
2	CA	B	803	1/1	0.98	0.03	59,59,59,59	0
2	CA	B	802	1/1	0.99	0.09	43,43,43,43	0
2	CA	A	804	1/1	0.99	0.12	27,27,27,27	0
2	CA	B	804	1/1	0.99	0.08	37,37,37,37	0
2	CA	B	806	1/1	0.99	0.08	33,33,33,33	0
2	CA	B	807	1/1	0.99	0.14	26,26,26,26	0
2	CA	B	808	1/1	0.99	0.10	31,31,31,31	0
2	CA	B	809	1/1	0.99	0.12	28,28,28,28	0
2	CA	A	806	1/1	0.99	0.11	27,27,27,27	0
2	CA	A	807	1/1	0.99	0.12	28,28,28,28	0
2	CA	A	808	1/1	0.99	0.11	34,34,34,34	0
2	CA	A	801	1/1	0.99	0.06	67,67,67,67	0
2	CA	A	802	1/1	1.00	0.12	21,21,21,21	0
2	CA	A	803	1/1	1.00	0.13	25,25,25,25	0
2	CA	A	809	1/1	1.00	0.10	29,29,29,29	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.

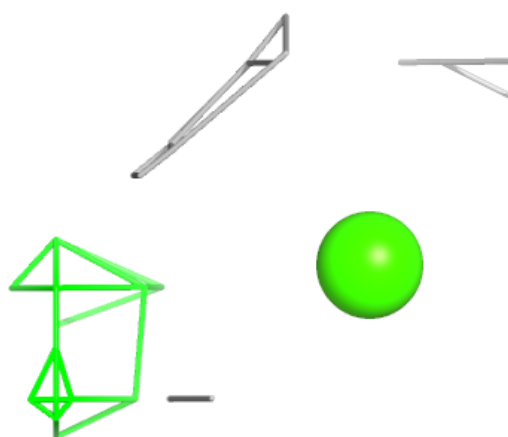
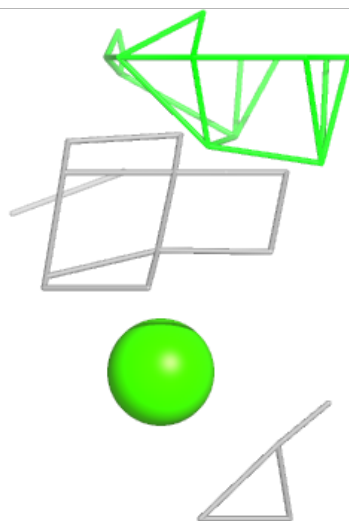
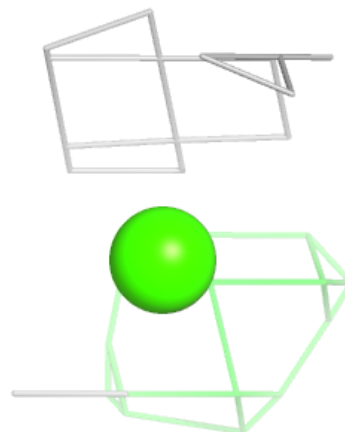
Electron density around CA B 801:

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



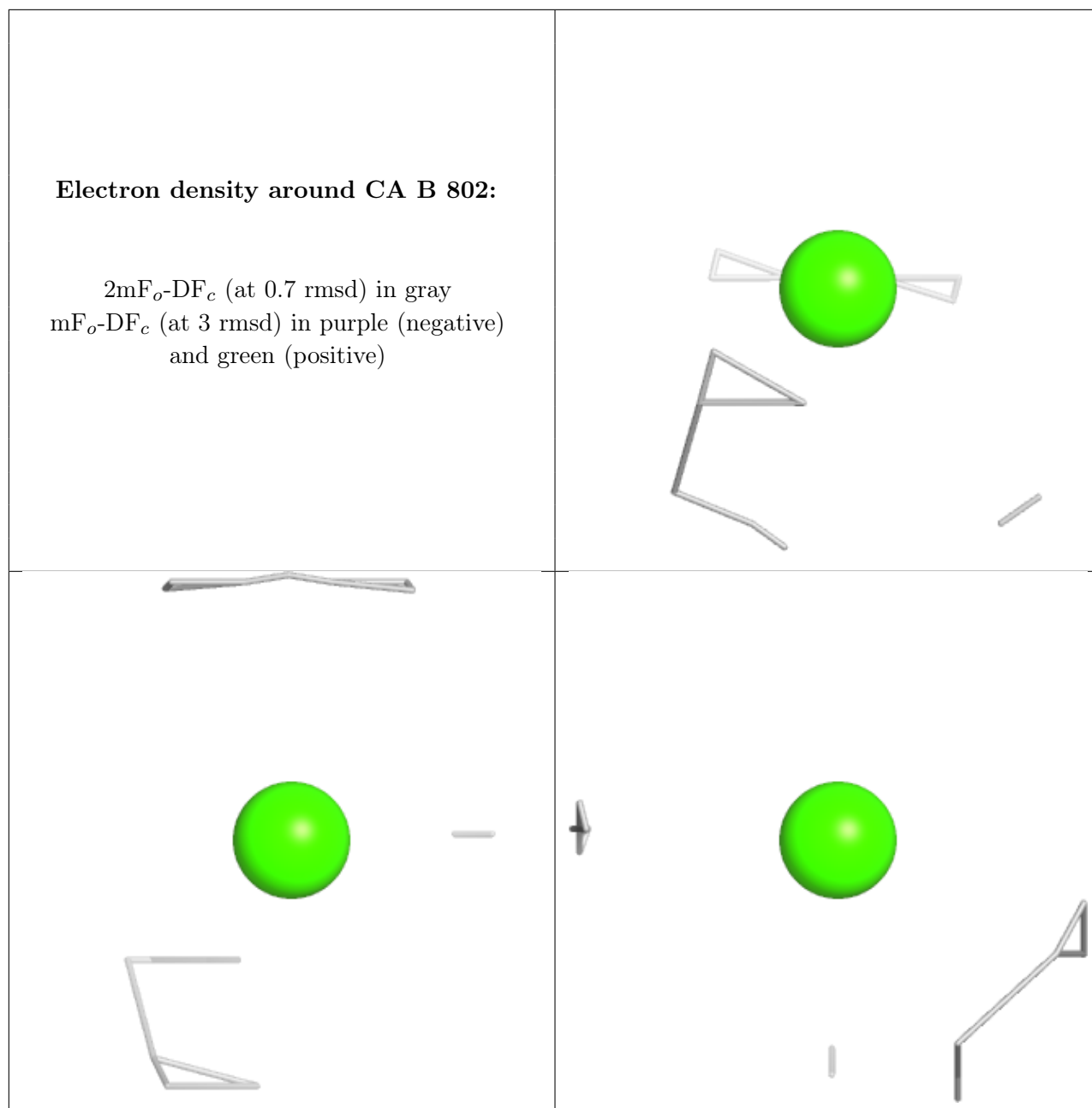
Electron density around CA B 803:

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



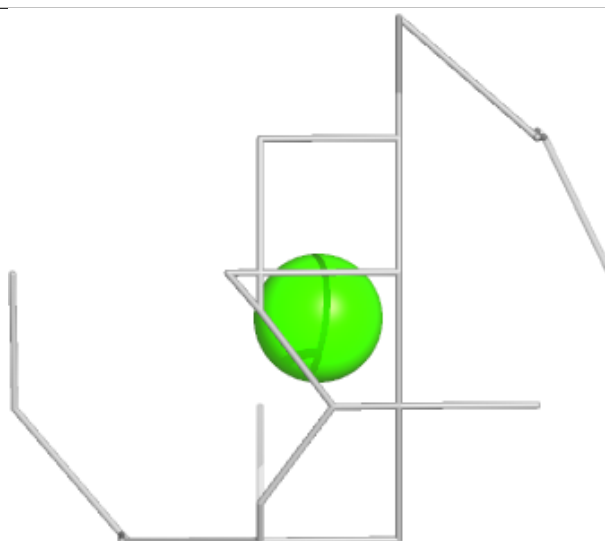
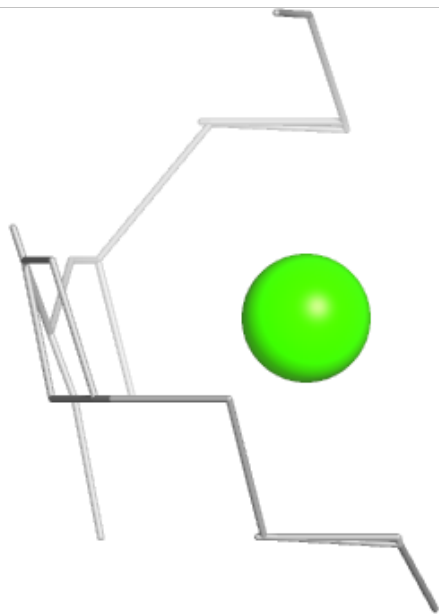
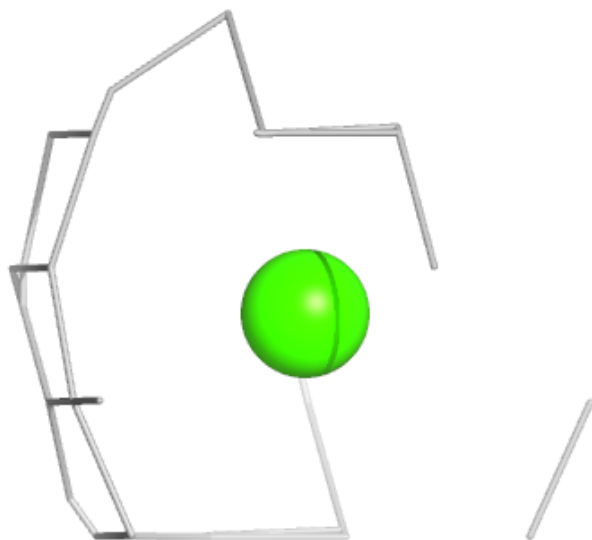
Electron density around CA B 802:

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



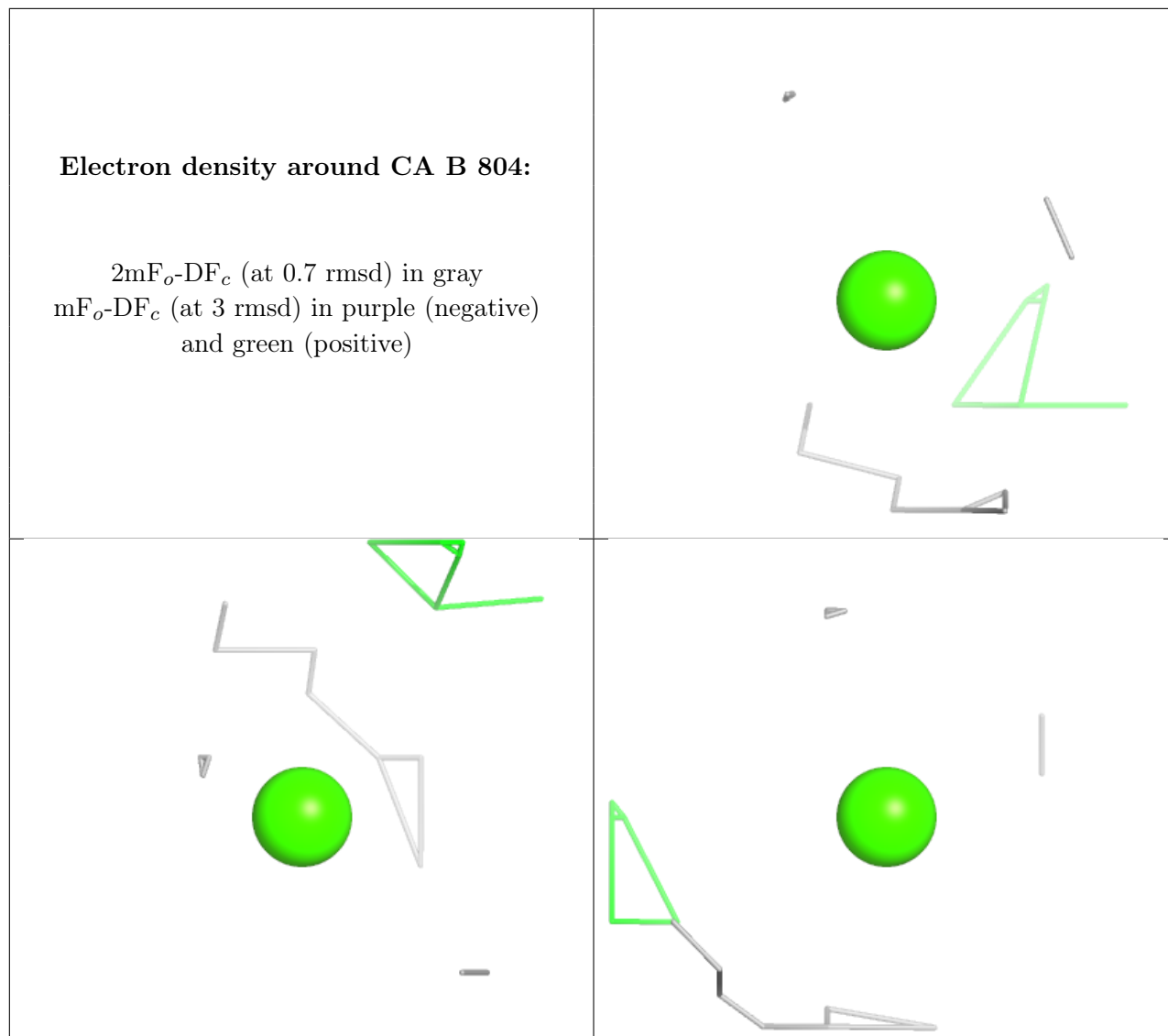
Electron density around CA A 804:

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



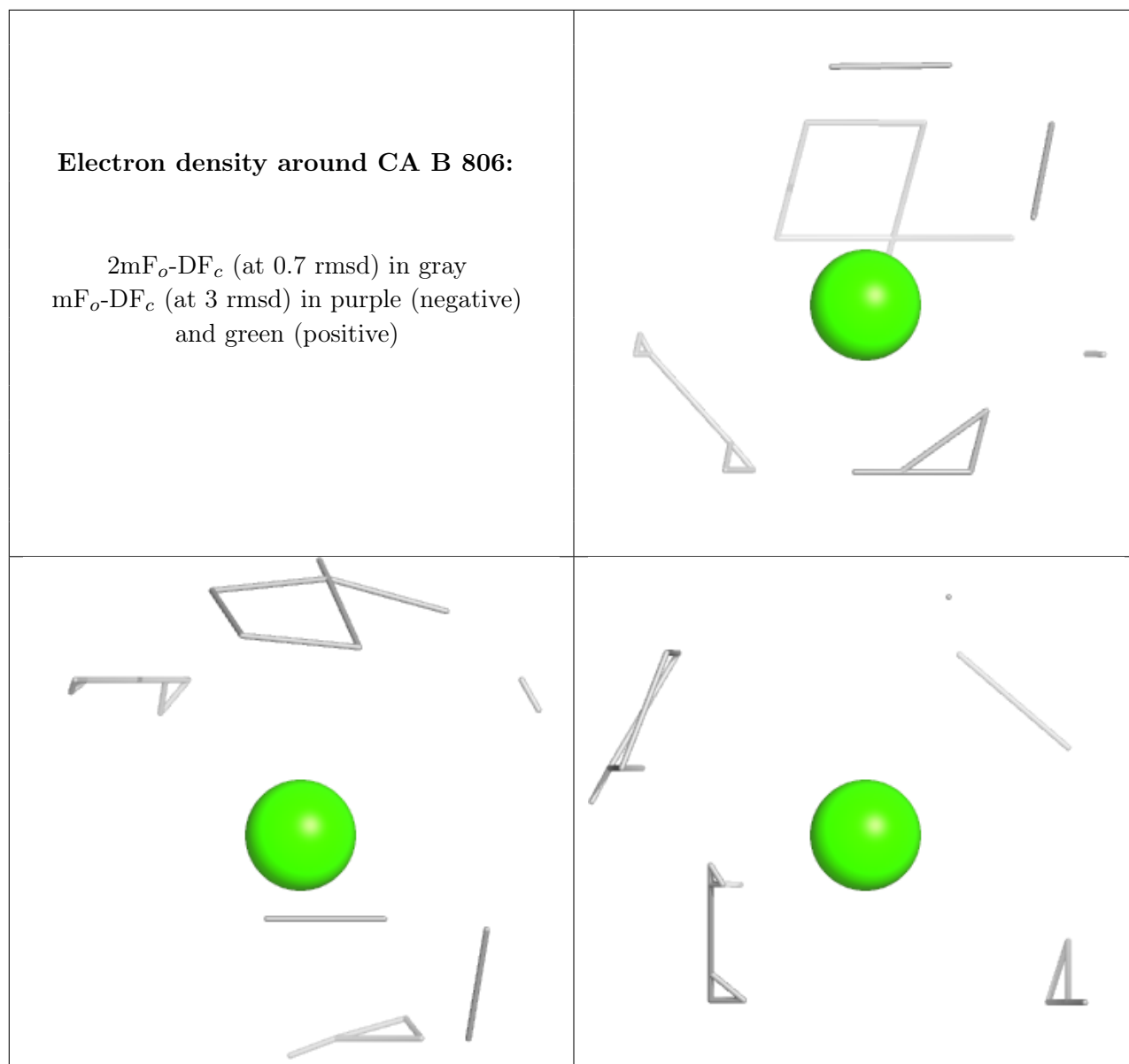
Electron density around CA B 804:

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



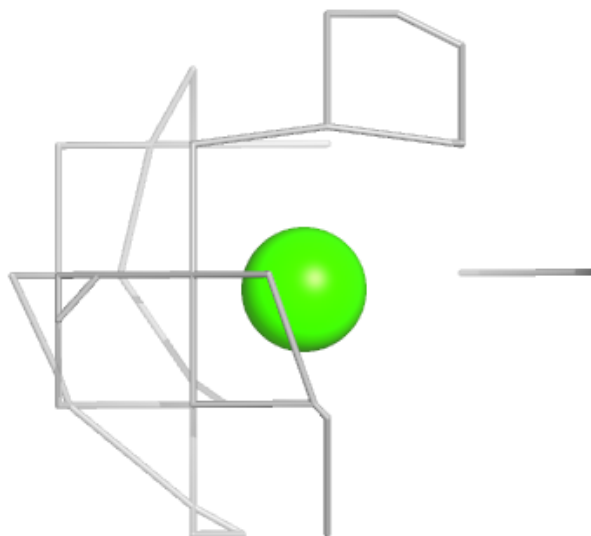
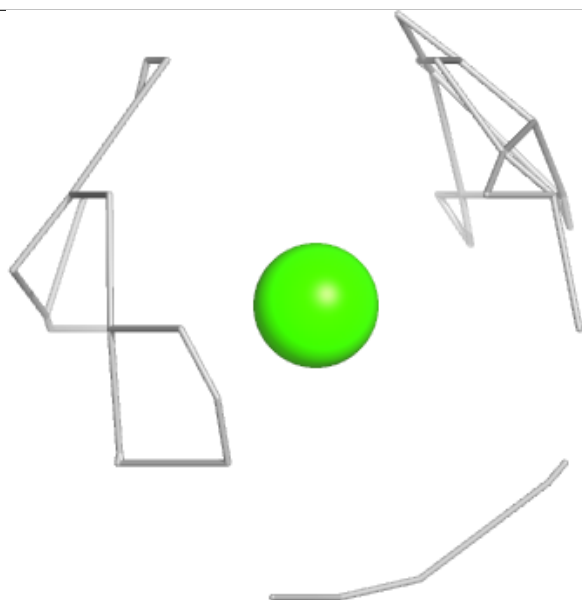
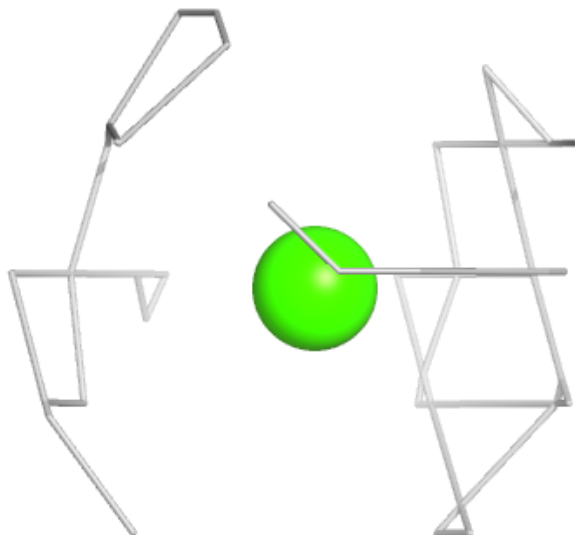
Electron density around CA B 806:

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



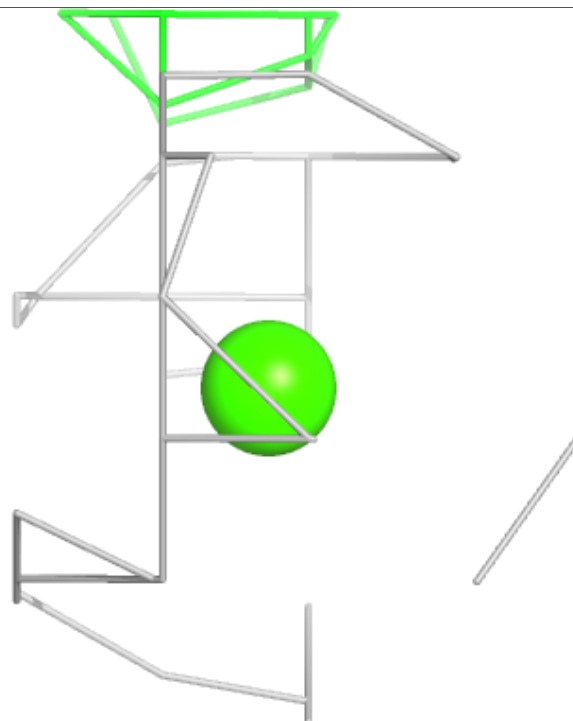
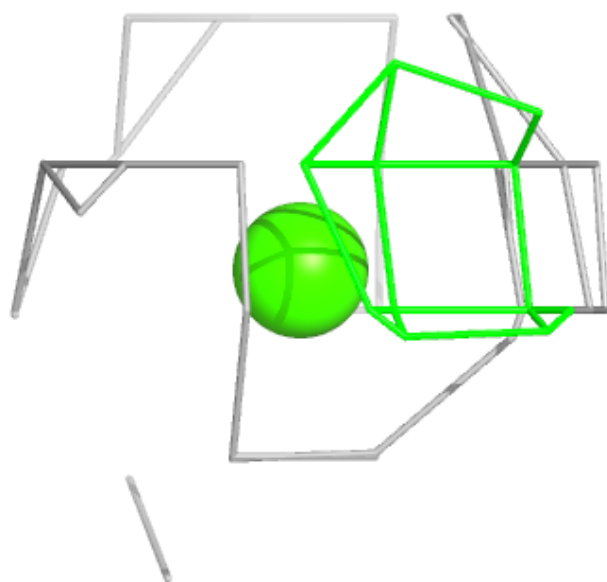
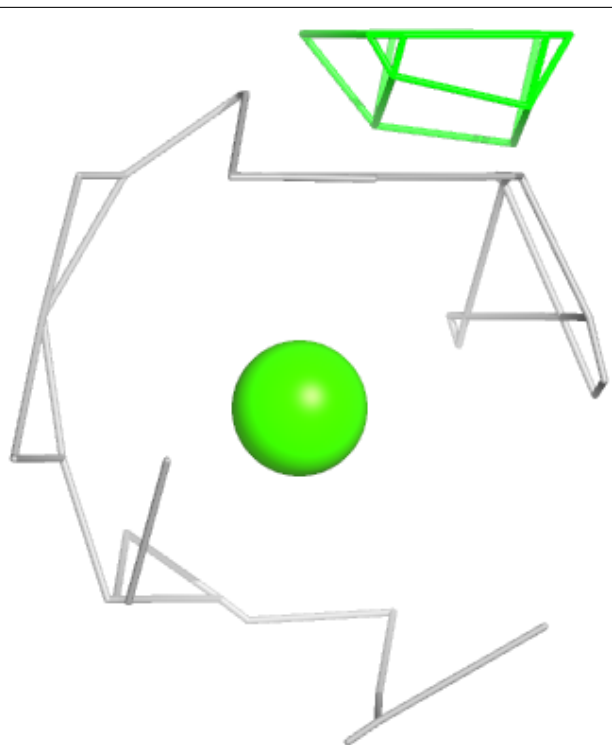
Electron density around CA B 807:

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



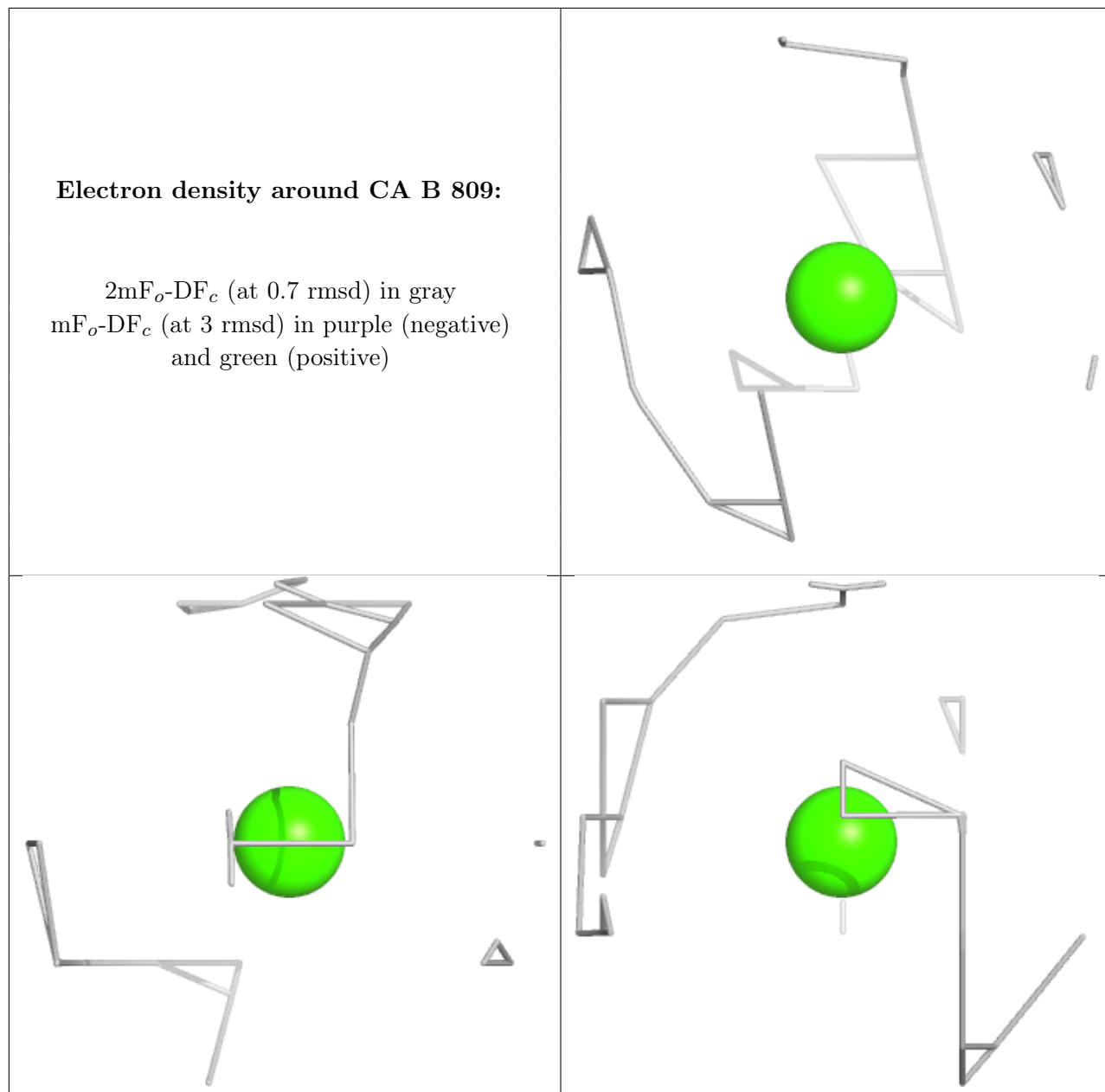
Electron density around CA B 808:

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



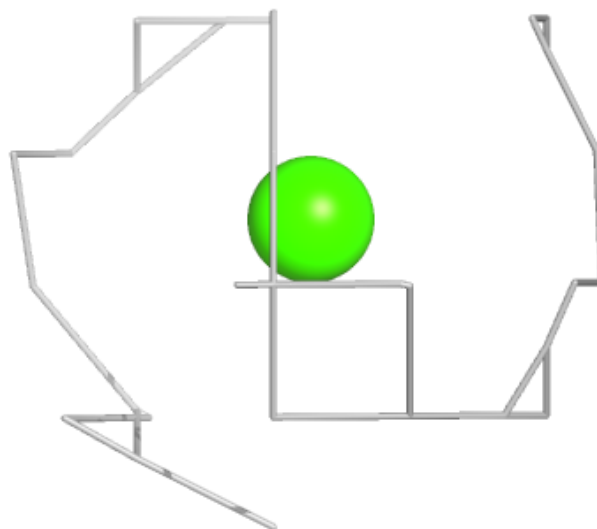
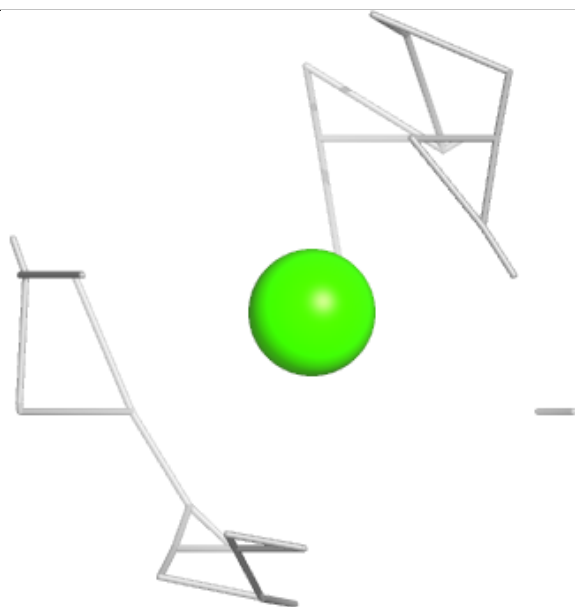
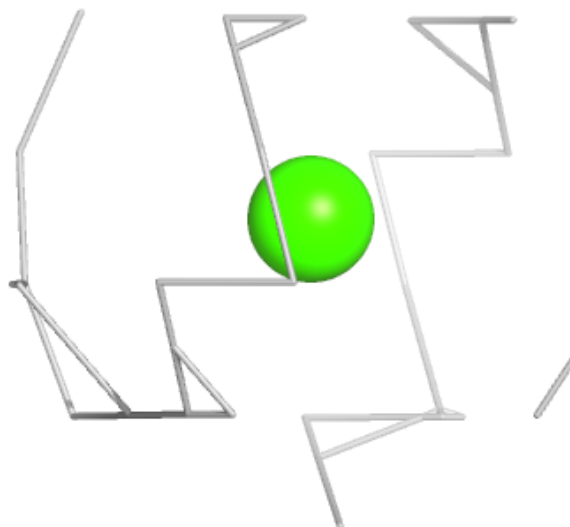
Electron density around CA B 809:

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



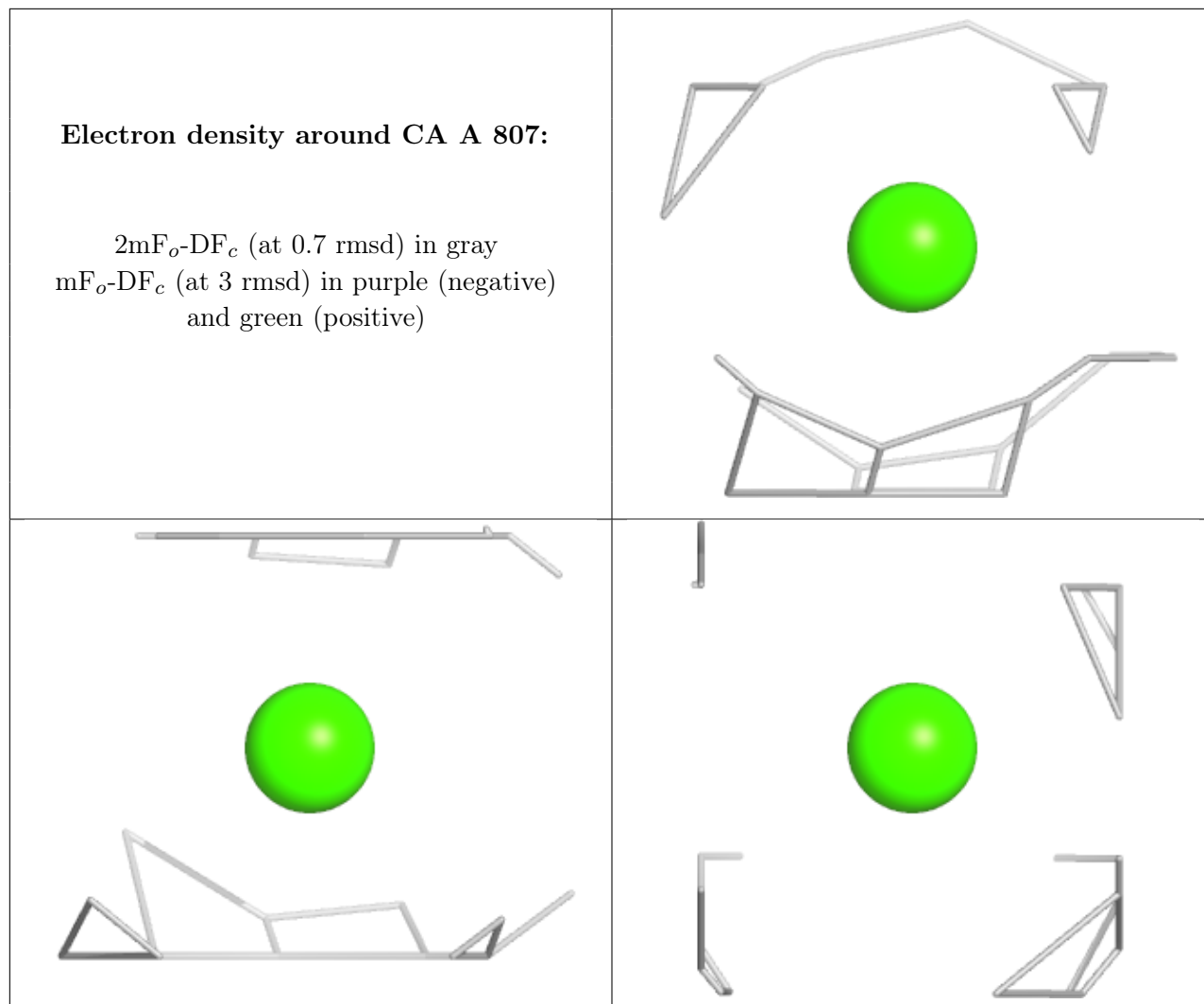
Electron density around CA A 806:

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



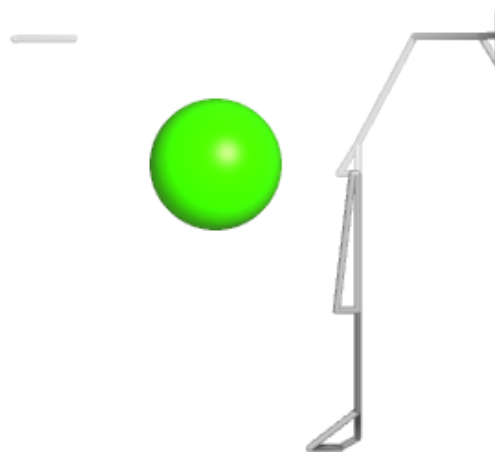
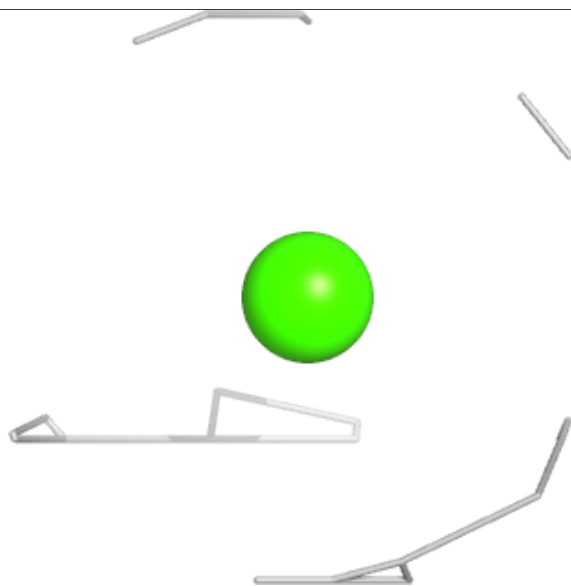
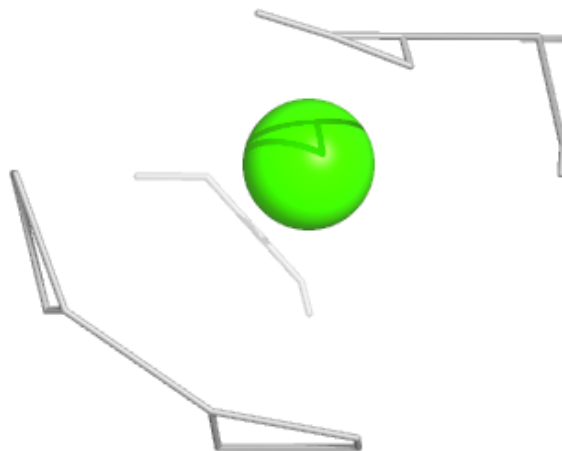
Electron density around CA A 807:

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



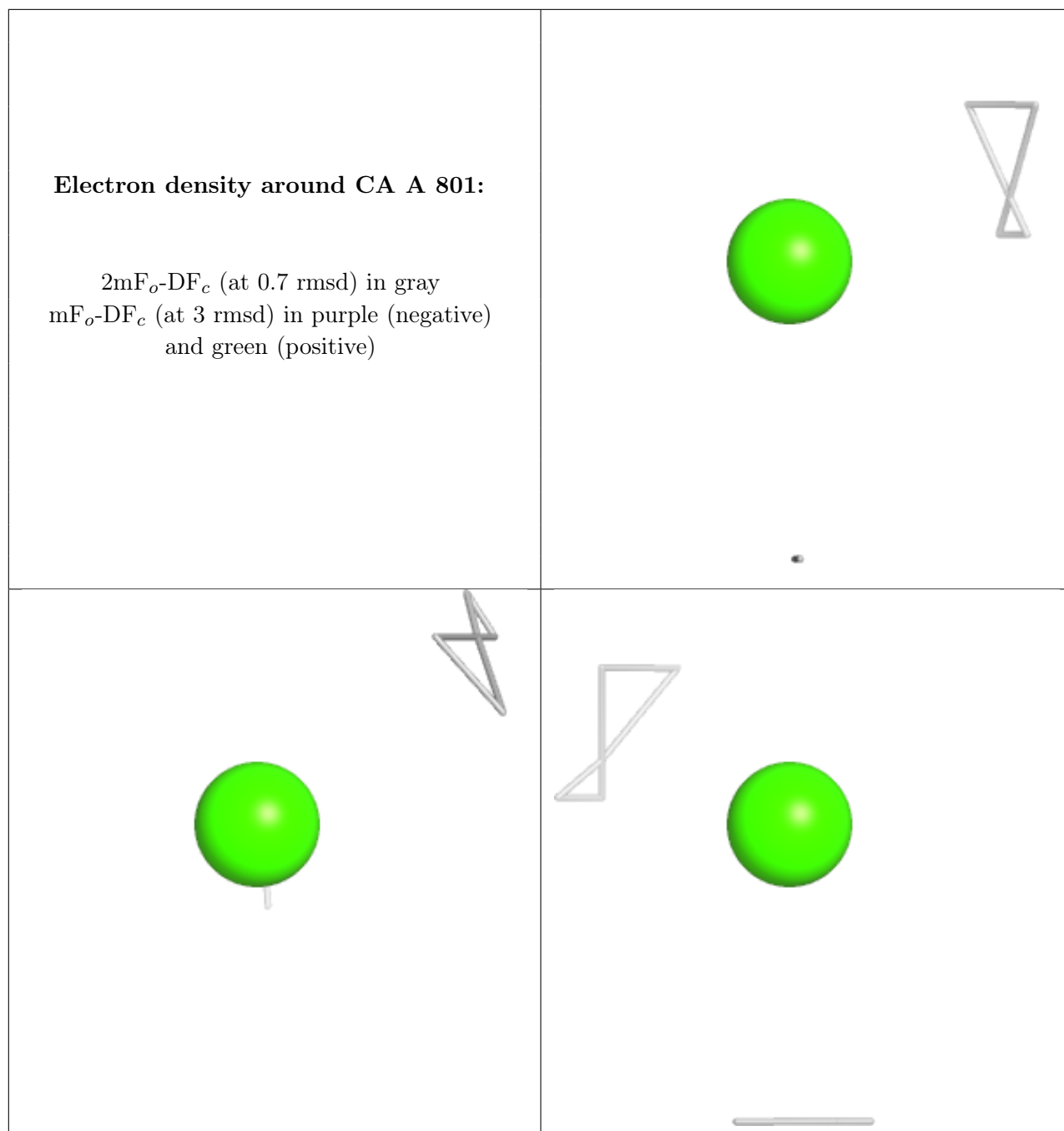
Electron density around CA A 808:

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



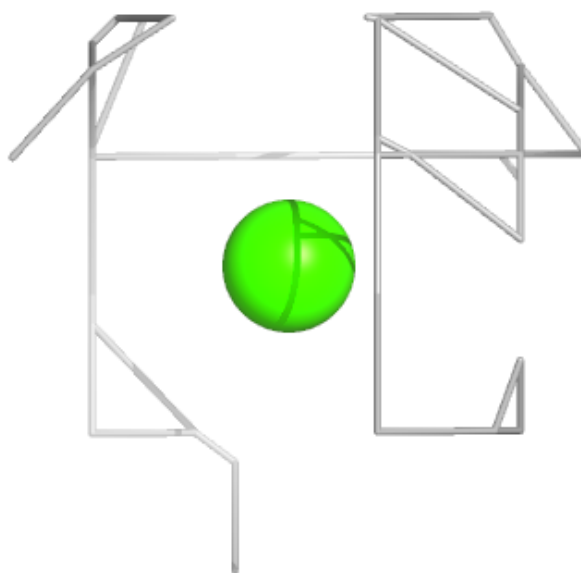
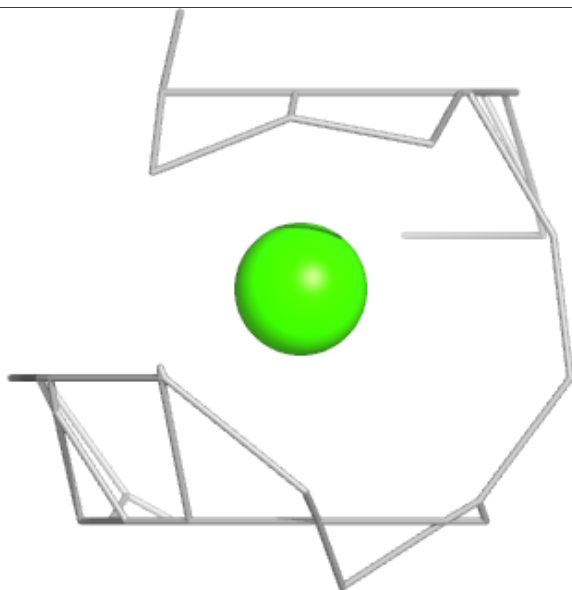
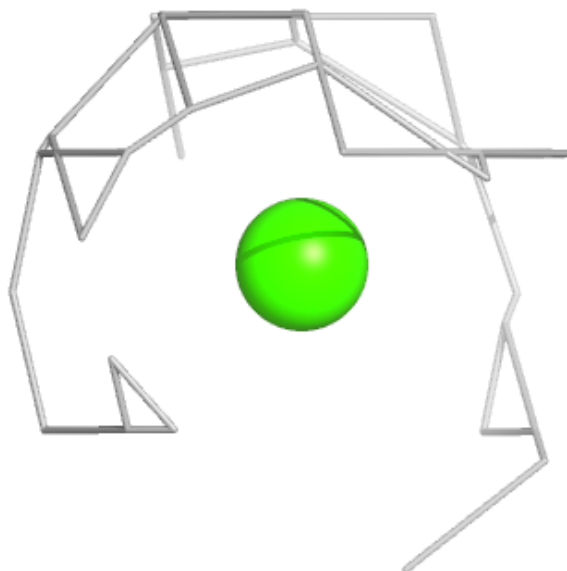
Electron density around CA A 801:

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



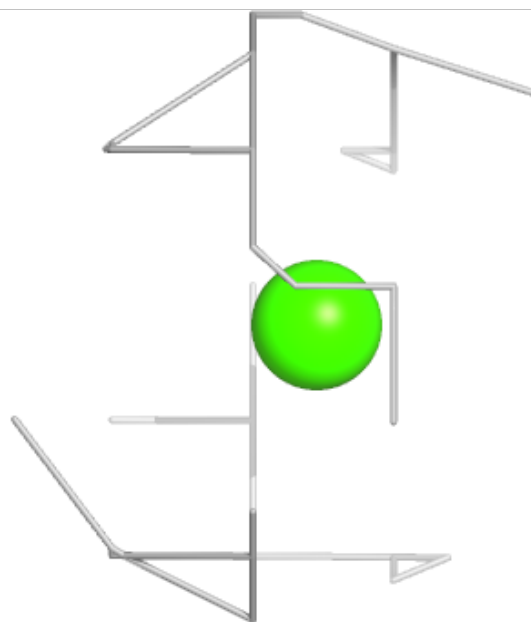
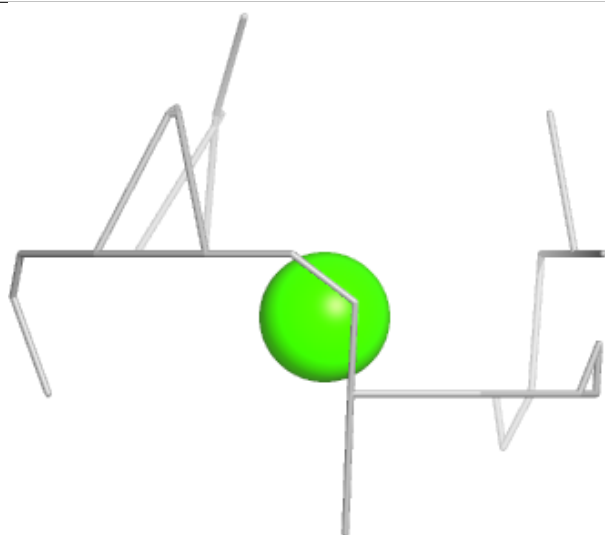
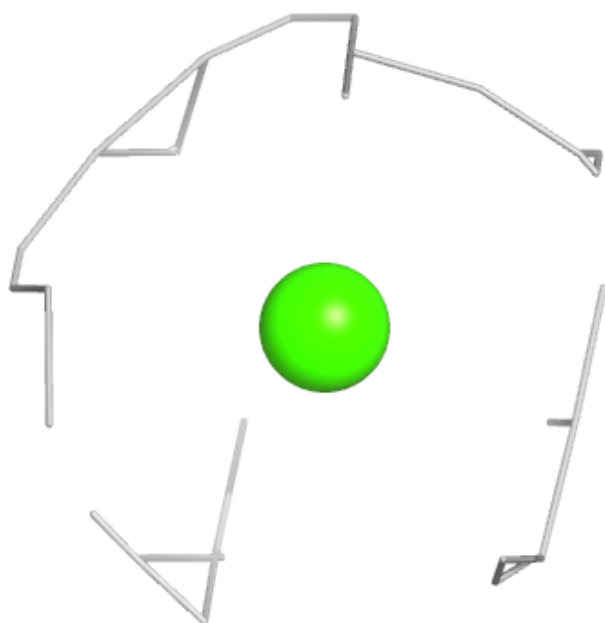
Electron density around CA A 802:

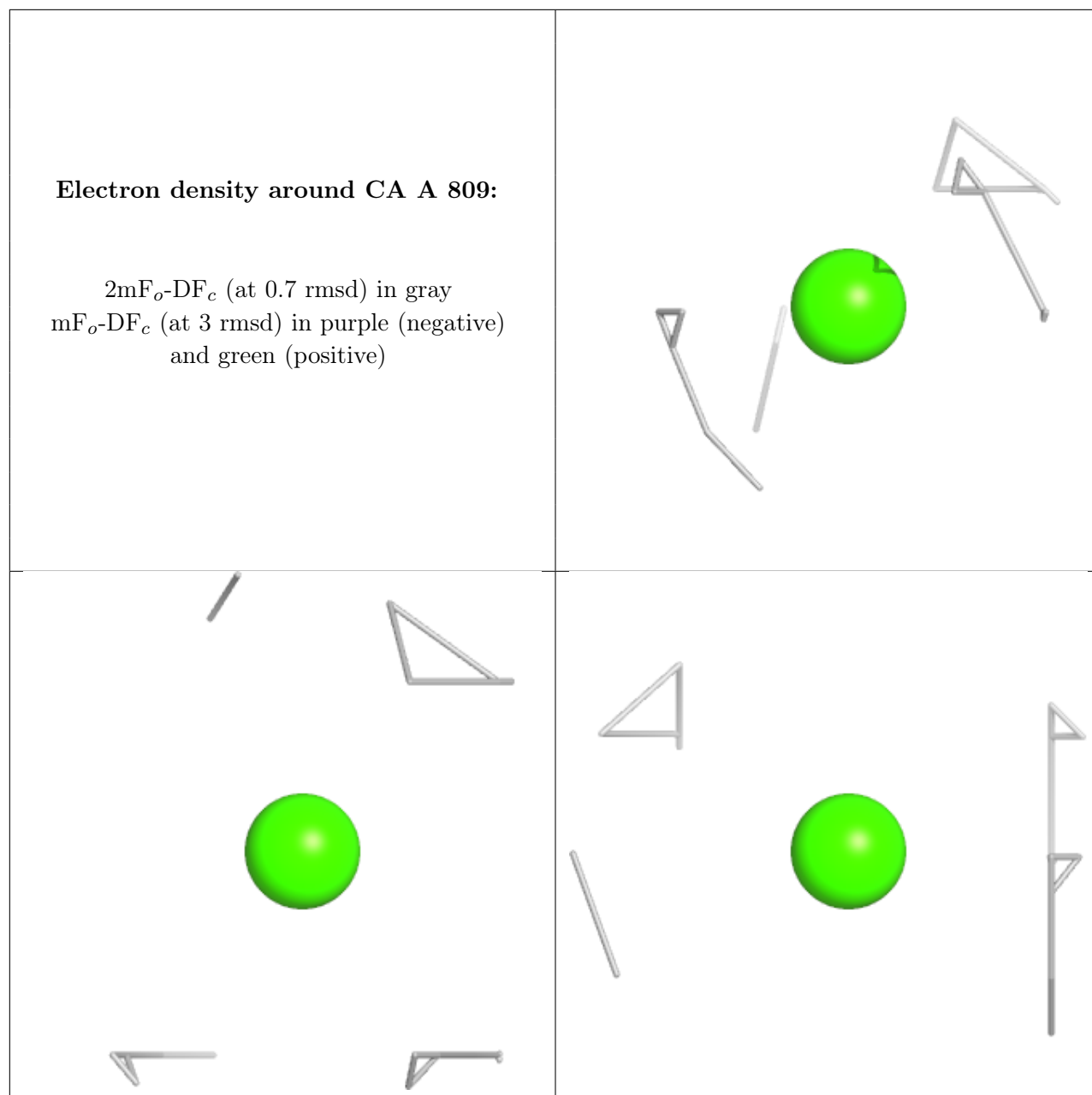
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around CA A 803:

$2mF_o-DF_c$ (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.