W O R L D W I D E
wwPDB
P R O T E I N   D A T A   B A N K

Full wwPDB X-ray Structure Validation Report (i)

Nov 14, 2022 – 03:27 pm GMT

PDB ID	:	8AMN
Title	:	Crystal structure of AUGUGGCAU duplex with strontium ions
Authors	:	Kiliszek, A.; Rypniewski, W.
Deposited on	:	2022-08-03
Resolution	:	2.46 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 (i) 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 (i)) 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	:	5.8.0267
CCP4	:	7.1.010 (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 2.46 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	Percentile Ranks	Value
Rfree		0.255
RNA backbone		0.61

Worse   *Better*

▮ Percentile relative to all X-ray structures

◻ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1544 (2.48-2.44)
RNA backbone	3102	1001 (2.80-2.12)

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 <=5%

Mol	Chain	Length	Quality of chain
1	A	9	78% 22%
1	B	9	100%
1	C	9	67% 33%
1	D	9	100%
1	E	9	89% 11%
1	F	9	89% 11%
1	G	9	89% 11%
1	H	9	89% 11%
1	I	9	78% 22%
1	J	9	100%

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Mol	Chain	Length	Quality of chain
1	K	9	100%
1	L	9	89% 11%
1	M	9	89% 11%
1	N	9	78% 22%
1	O	9	89% 11%
1	P	9	100%
1	Q	9	89% 11%
1	R	9	100%
1	S	9	56% 44%
1	T	9	78% 22%
1	U	9	78% 22%
1	V	9	100%
1	Y	9	100%
1	Z	9	89% 11%
1	a	9	67% 22% 11%
1	b	9	78% 22%
1	c	9	100%
1	d	9	100%

2 Entry composition ⓘ

There are 3 unique types of molecules in this entry. The entry contains 5400 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 RNA chain called RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	9	Total	C	N	O	P	0	1	0
			213	96	39	69	9			
1	B	9	Total	C	N	O	P	0	1	0
			213	96	39	69	9			
1	C	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	D	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	E	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	F	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	G	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	H	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	I	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	J	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	K	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	L	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	M	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	N	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	O	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	P	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Q	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	R	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	S	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	T	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	U	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	V	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	Y	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	Z	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	a	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	b	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	c	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			
1	d	9	Total	C	N	O	P	0	0	0
			190	86	34	62	8			

- Molecule 2 is STRONTIUM ION (three-letter code: SR) (formula: Sr) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Sr	0	0
			1	1		
2	C	2	Total	Sr	0	0
			2	2		
2	E	1	Total	Sr	0	0
			1	1		
2	G	1	Total	Sr	0	0
			1	1		
2	H	1	Total	Sr	0	0
			1	1		
2	I	1	Total	Sr	0	0
			1	1		
2	L	1	Total	Sr	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	M	2	Total 2	Sr 2	0	0
2	O	1	Total 1	Sr 1	0	0
2	Q	2	Total 2	Sr 2	0	0
2	S	2	Total 2	Sr 2	0	0
2	U	1	Total 1	Sr 1	0	0
2	Y	2	Total 2	Sr 2	0	0
2	a	1	Total 1	Sr 1	0	0
2	b	1	Total 1	Sr 1	0	0
2	d	1	Total 2	Sr 2	0	1

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total 1	O 1	0	0
3	B	2	Total 2	O 2	0	0
3	E	2	Total 2	O 2	0	0
3	F	2	Total 2	O 2	0	0
3	H	1	Total 1	O 1	0	0
3	K	1	Total 1	O 1	0	0
3	M	1	Total 1	O 1	0	0
3	O	1	Total 1	O 1	0	0
3	U	1	Total 1	O 1	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. 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. 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: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain A:

- Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain B:

There are no outlier residues recorded for this chain.

- Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')
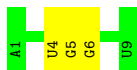
Chain C:

- Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain D:

There are no outlier residues recorded for this chain.

- Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain E:

- Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain F:

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain G: 89% 11%

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain H: 89% 11%

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain I: 78% 22%
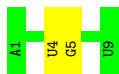
• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain J: 100%

There are no outlier residues recorded for this chain.

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain K: 100%

There are no outlier residues recorded for this chain.

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain L: 89% 11%

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain M: 89% 11%

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain N: 78% 22%

A1 G5 G6 U9

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain O: 89% 11%

A1 G5 U9

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain P: 100%

There are no outlier residues recorded for this chain.

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain Q: 89% 11%

A1 G5 U9

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain R: 100%

There are no outlier residues recorded for this chain.

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain S: 56% 44%

A1 U2 G3 U4 G5 G6 C7 A8 U9

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain T: 78% 22%

A1 U4 G5 G6 U9

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain U: 78% 22%

A1 G5 U9

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain V:

100%

There are no outlier residues recorded for this chain.

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain Y:

100%

There are no outlier residues recorded for this chain.

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain Z:

89%   11%

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain a:

67%   22%   11%

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain b:

78%   22%

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain c:

100%

There are no outlier residues recorded for this chain.

• Molecule 1: RNA (5'-R(*AP*UP*GP*UP*GP*GP*CP*AP*U)-3')

Chain d:

100%

There are no outlier residues recorded for this chain.

4　Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	28.10Å　　90.13Å　　138.18Å 90.00°　　91.39°　　　90.00°	Depositor
Resolution (Å)	46.05　–　2.46 46.05　–　2.46	Depositor EDS
% Data completeness (in resolution range)	99.0 (46.05-2.46) 91.7 (46.05-2.46)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.57 (at 2.45Å)	Xtriage
Refinement program	PHENIX 1.16_3549	Depositor
R, R_{free}	0.199　,　0.248 0.208　,　0.255	Depositor DCC
R_{free} test set	1979 reflections (7.98%)	wwPDB-VP
Wilson B-factor (Å^2)	66.5	Xtriage
Anisotropy	0.301	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	(Not available) , (Not available)	EDS
L-test for twinning[2]	$< |L| > = 0.51, < L^2 > = 0.35$	Xtriage
Estimated twinning fraction	0.049 for h,-k,-l	Xtriage
F_o,F_c correlation	0.96	EDS
Total number of atoms	5400	wwPDB-VP
Average B, all atoms (Å^2)	96.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 16.21% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ 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: SR

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	0/238	1.30	2/370 (0.5%)
1	B	0.79	0/238	1.23	0/370
1	C	0.91	0/212	1.41	2/329 (0.6%)
1	D	0.72	0/212	1.09	0/329
1	E	0.72	0/212	1.16	0/329
1	F	0.75	0/212	1.22	0/329
1	G	0.83	0/212	1.22	0/329
1	H	0.70	0/212	1.16	1/329 (0.3%)
1	I	0.73	0/212	1.23	0/329
1	J	0.67	0/212	1.20	0/329
1	K	0.78	0/212	1.19	0/329
1	L	0.75	0/212	1.13	0/329
1	M	0.74	0/212	1.12	0/329
1	N	0.74	0/212	1.21	0/329
1	O	0.40	0/212	0.87	0/329
1	P	0.46	0/212	0.92	0/329
1	Q	0.53	0/212	0.95	0/329
1	R	0.62	0/212	1.11	0/329
1	S	0.56	0/212	1.13	1/329 (0.3%)
1	T	0.62	0/212	1.16	0/329
1	U	0.44	0/212	0.98	0/329
1	V	0.42	0/212	0.93	0/329
1	Y	0.48	0/212	0.91	0/329
1	Z	0.62	0/212	1.14	0/329
1	a	0.43	0/212	0.98	0/329
1	b	0.46	0/212	0.97	0/329
1	c	0.37	0/212	0.98	0/329
1	d	0.42	0/212	1.01	0/329
All	All	0.64	0/5988	1.11	6/9294 (0.1%)

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	7	C	N1-C2-O2	-6.01	115.29	118.90
1	C	6	G	N1-C6-O6	-5.45	116.63	119.90
1	H	6	G	C5-C6-O6	-5.44	125.33	128.60
1	S	7	C	C6-N1-C2	5.39	122.45	120.30
1	C	4	U	N3-C4-C5	5.24	117.75	114.60
1	A	3	G	N3-C4-C5	5.05	131.12	128.60

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

Due to software issues we are unable to calculate clashes - this section is therefore empty.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

There are no protein molecules in this entry.

5.3.2 Protein sidechains ⓘ

There are no protein molecules in this entry.

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A	7/9 (77%)	0	0
1	B	7/9 (77%)	0	0
1	C	8/9 (88%)	1 (12%)	0
1	D	8/9 (88%)	0	0
1	E	8/9 (88%)	1 (12%)	0
1	F	8/9 (88%)	1 (12%)	0
1	G	8/9 (88%)	1 (12%)	0
1	H	8/9 (88%)	0	0
1	I	8/9 (88%)	2 (25%)	0
1	J	8/9 (88%)	0	0
1	K	8/9 (88%)	0	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	L	8/9 (88%)	1 (12%)	0
1	M	8/9 (88%)	1 (12%)	0
1	N	8/9 (88%)	2 (25%)	0
1	O	8/9 (88%)	1 (12%)	0
1	P	8/9 (88%)	0	0
1	Q	8/9 (88%)	1 (12%)	0
1	R	8/9 (88%)	0	0
1	S	8/9 (88%)	3 (37%)	0
1	T	8/9 (88%)	1 (12%)	0
1	U	8/9 (88%)	2 (25%)	0
1	V	8/9 (88%)	0	0
1	Y	8/9 (88%)	0	0
1	Z	8/9 (88%)	1 (12%)	0
1	a	8/9 (88%)	3 (37%)	0
1	b	8/9 (88%)	2 (25%)	0
1	c	8/9 (88%)	0	0
1	d	8/9 (88%)	0	0
All	All	222/252 (88%)	24 (10%)	0

All (24) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	C	5	G
1	E	5	G
1	F	3	G
1	G	5	G
1	I	4	U
1	I	5	G
1	L	5	G
1	M	5	G
1	N	5	G
1	N	6	G
1	O	5	G
1	Q	5	G
1	S	3	G
1	S	5	G
1	S	6	G
1	T	4	U
1	U	5	G
1	U	9	U
1	Z	5	G
1	a	2	U

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Mol	Chain	Res	Type
1	a	3	G
1	a	5	G
1	b	5	G
1	b	6	G

There are no RNA pucker outliers to report.

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

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

5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 22 ligands modelled in this entry, 22 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 ⓘ

6.1 Protein, DNA and RNA chains ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

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

Unable to reproduce the depositors R factor - this section is therefore empty.

6.3 Carbohydrates ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

6.4 Ligands ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

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 SR B 101:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)
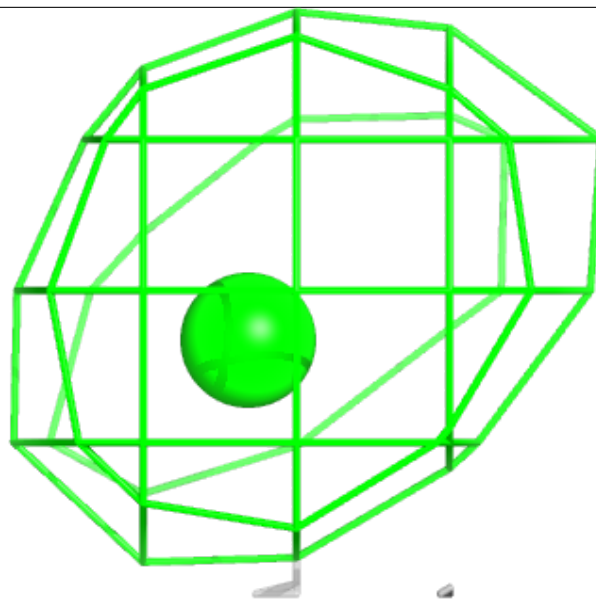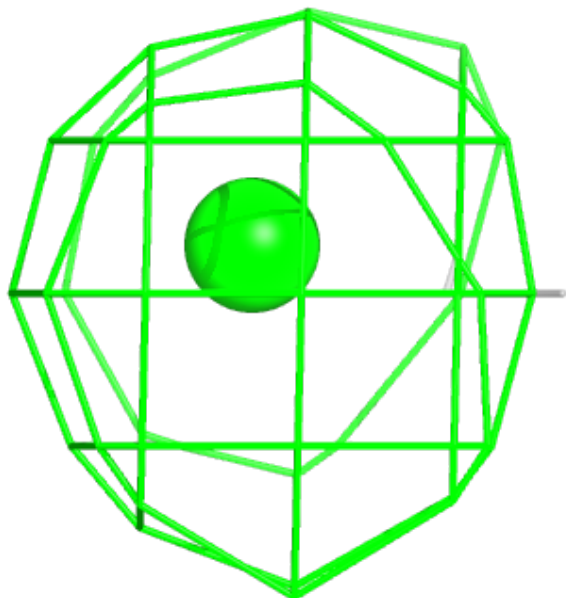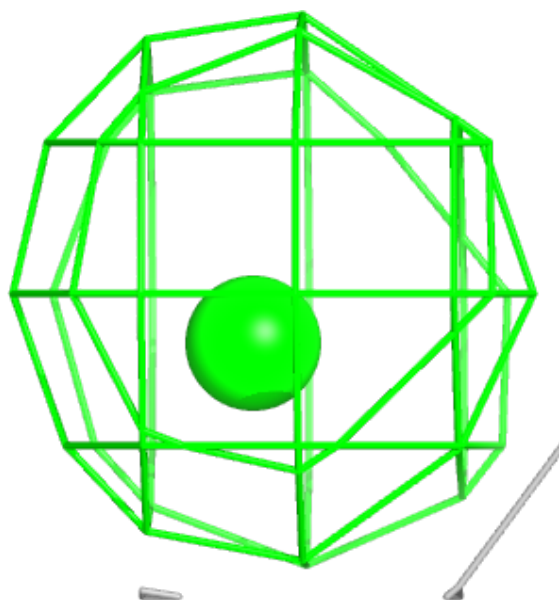
Electron density around SR C 101:

2mF$_o$-DF$_c$ (at 0.7 rmsd) in gray
mF$_o$-DF$_c$ (at 3 rmsd) in purple (negative)
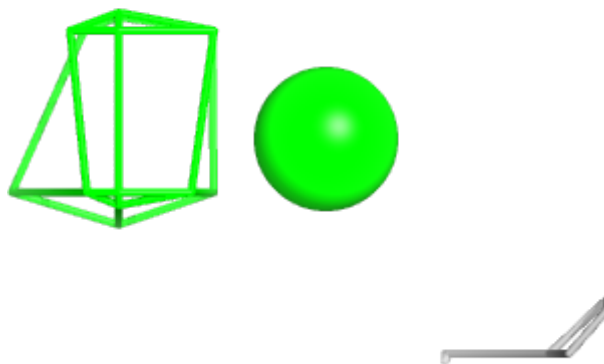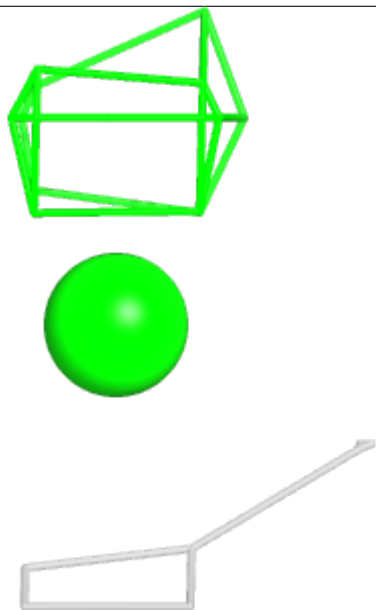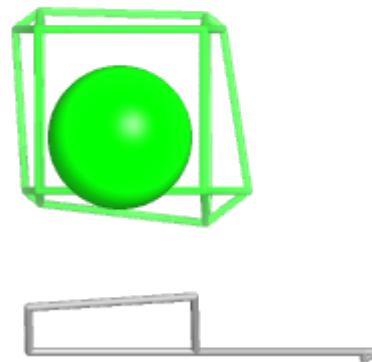and green (positive)
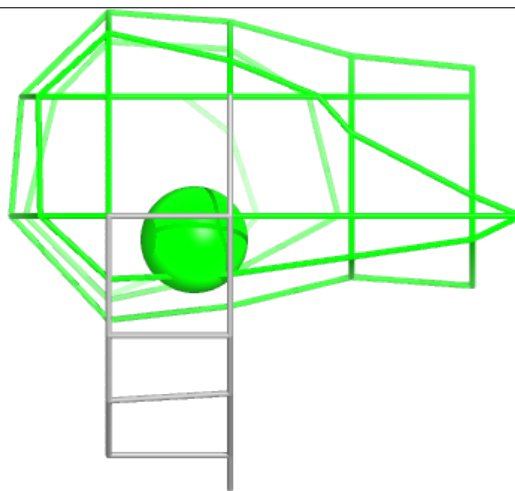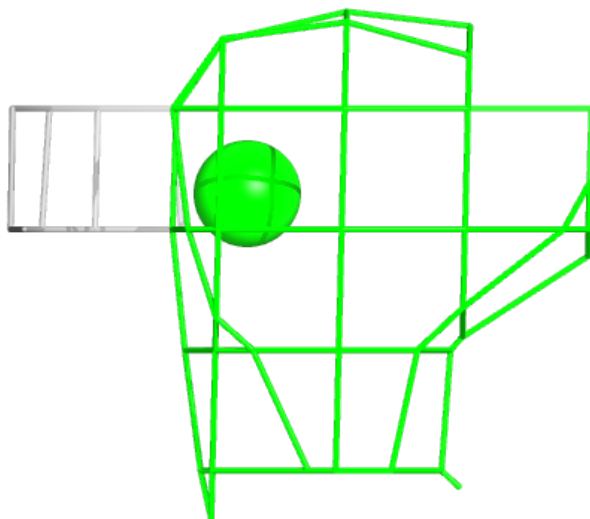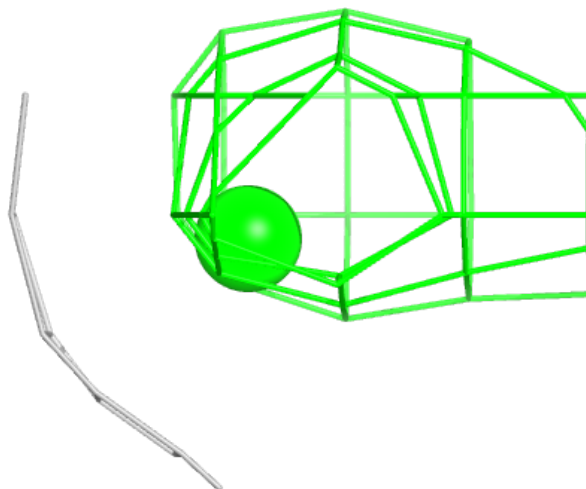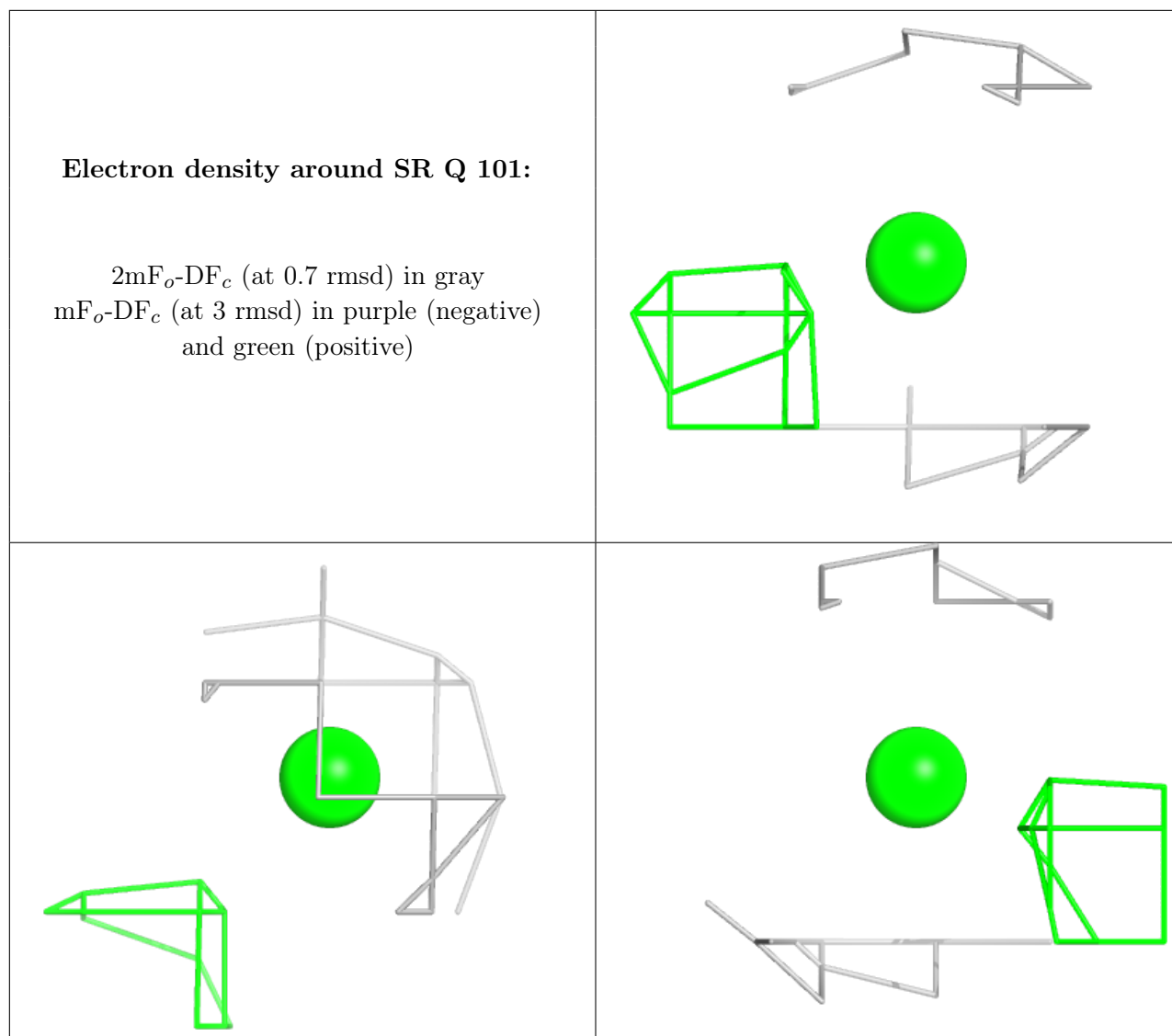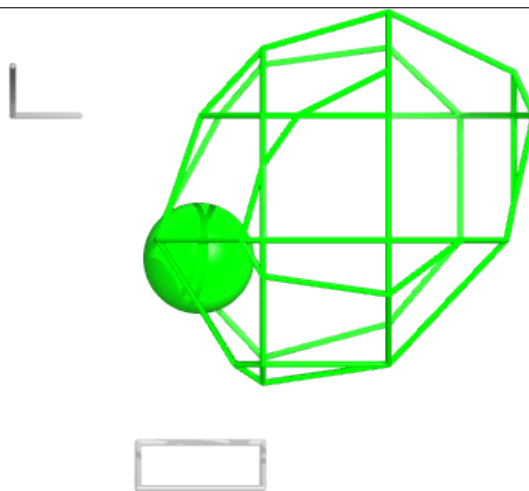
Electron density around SR C 102:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
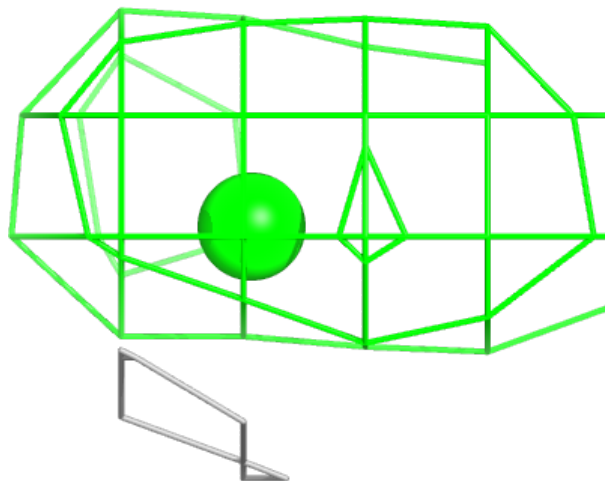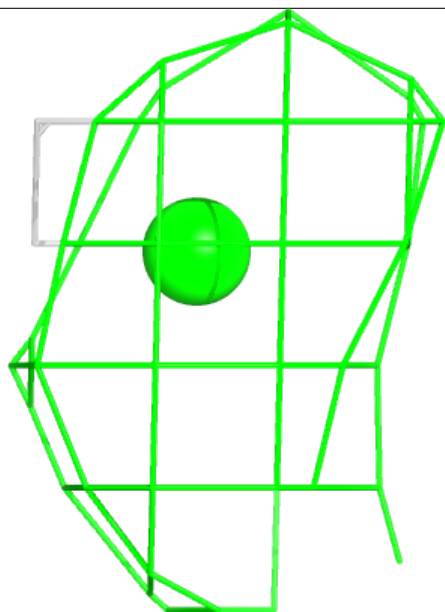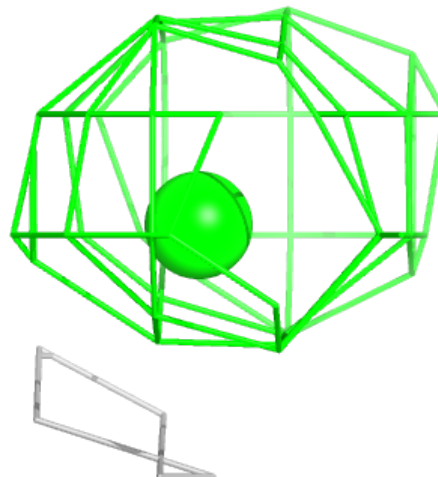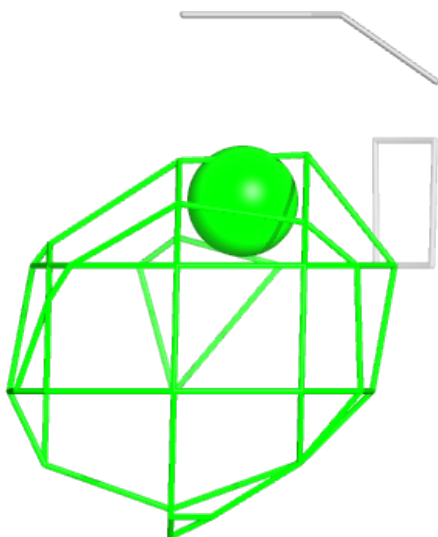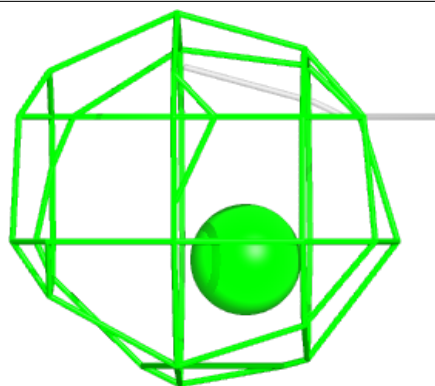
Electron density around SR E 101:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
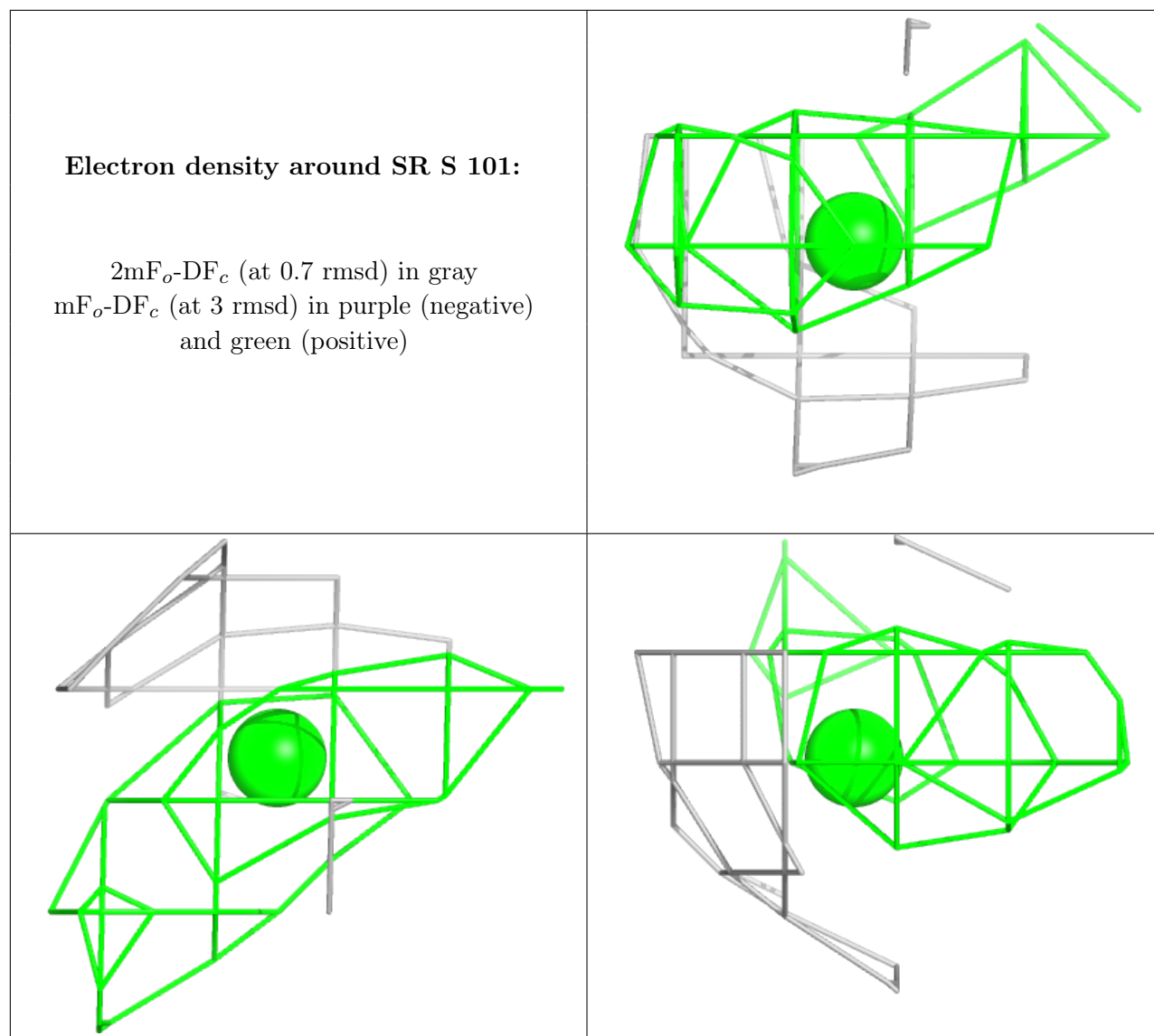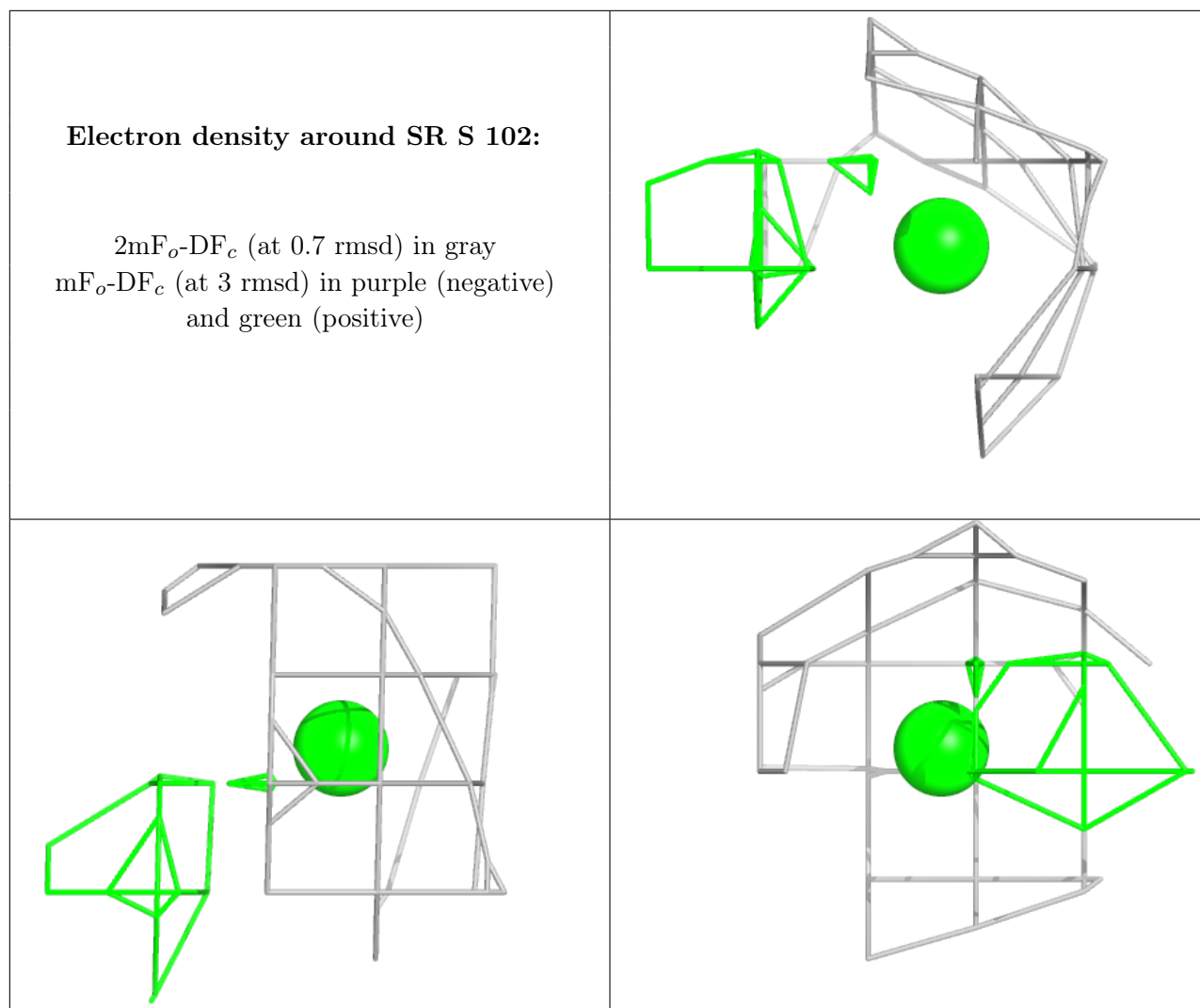and green (positive)
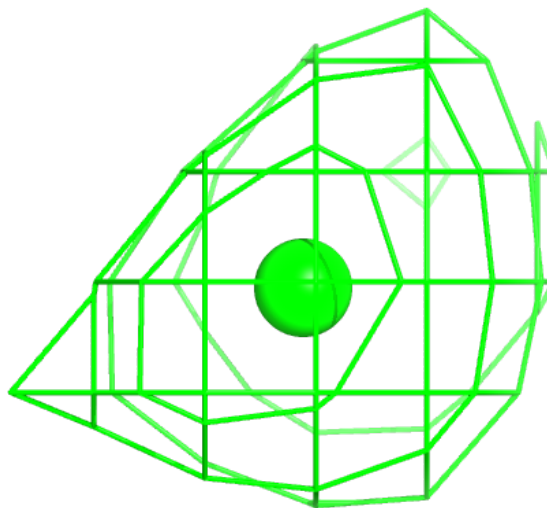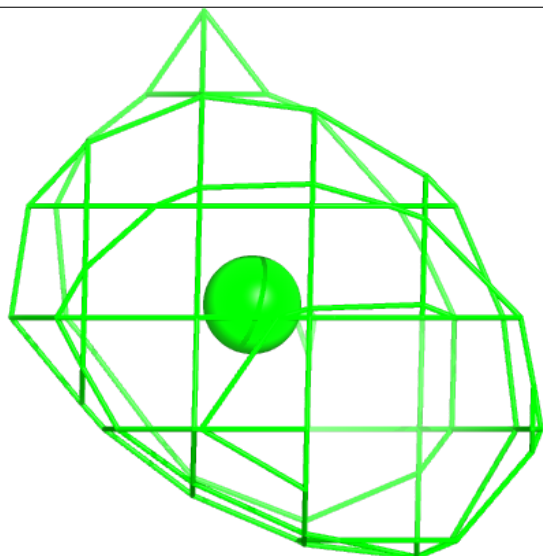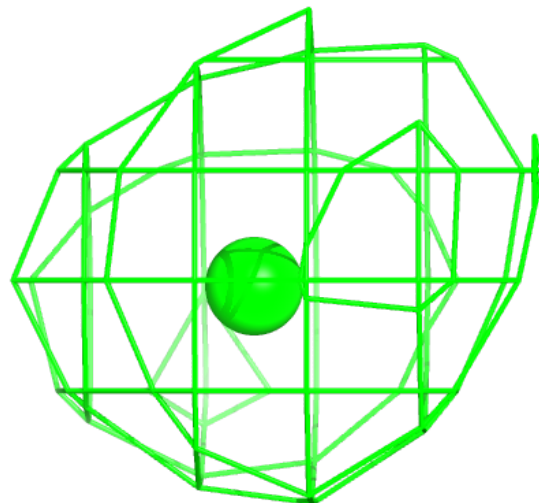
Electron density around SR G 101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
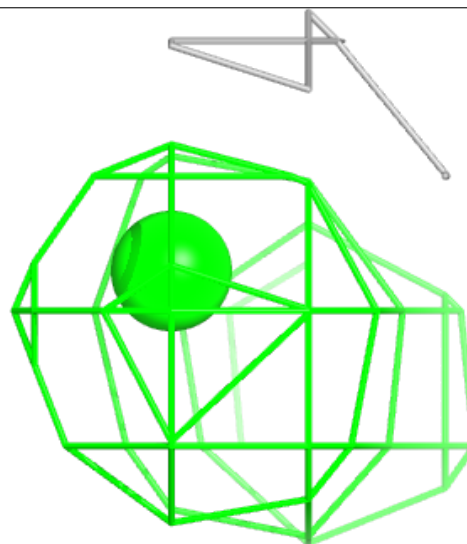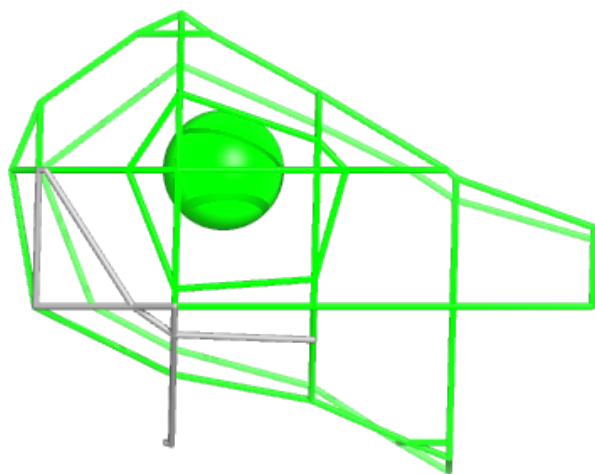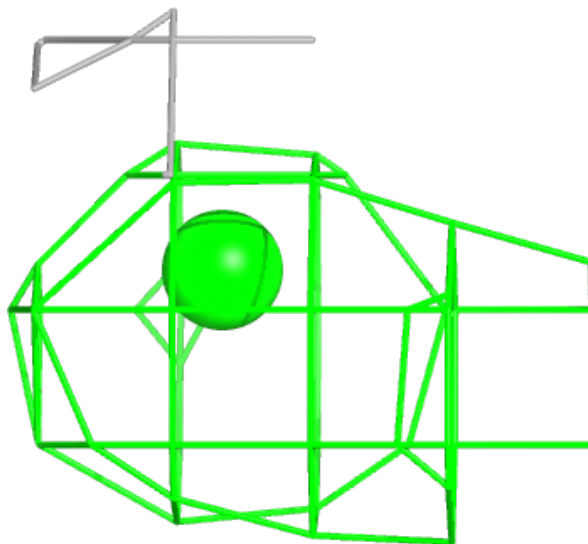
Electron density around SR H 101:

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

Electron density around SR I 101:

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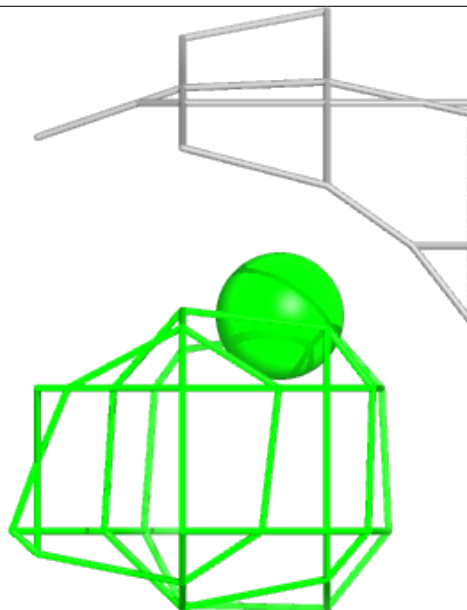$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)

Electron density around SR L 101:

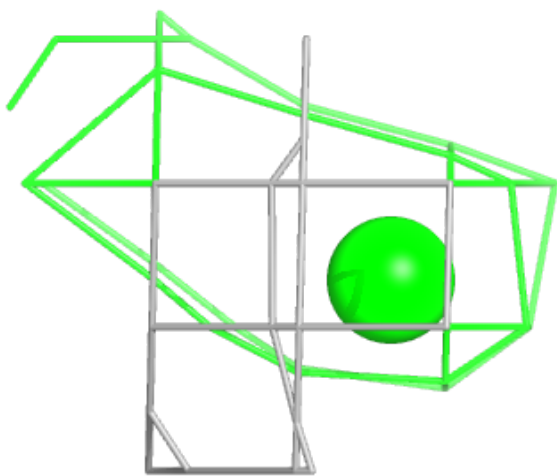$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
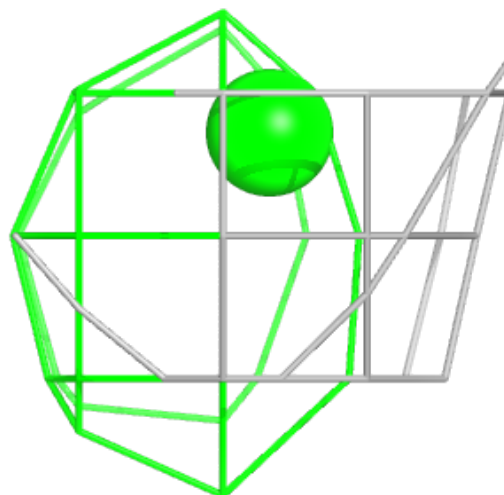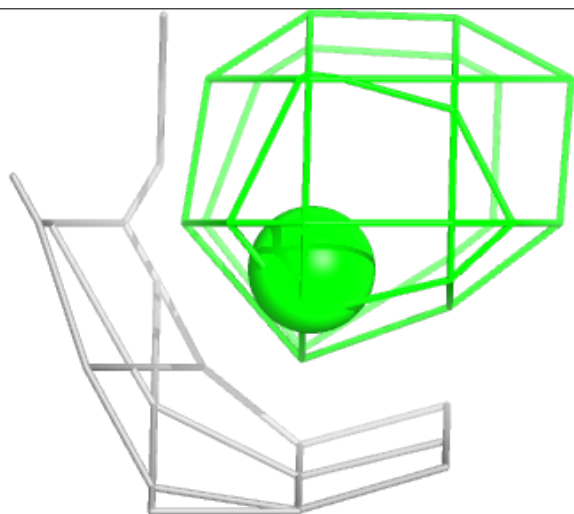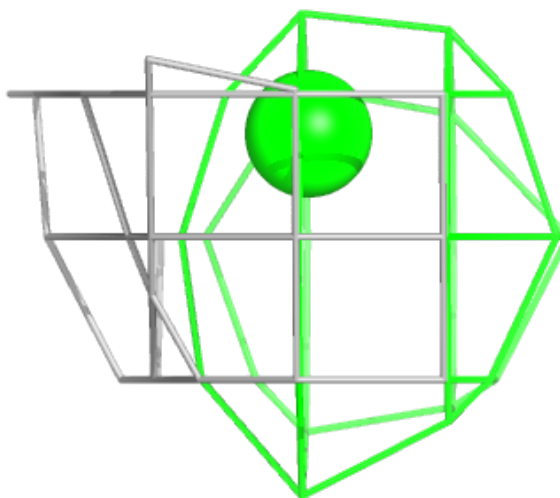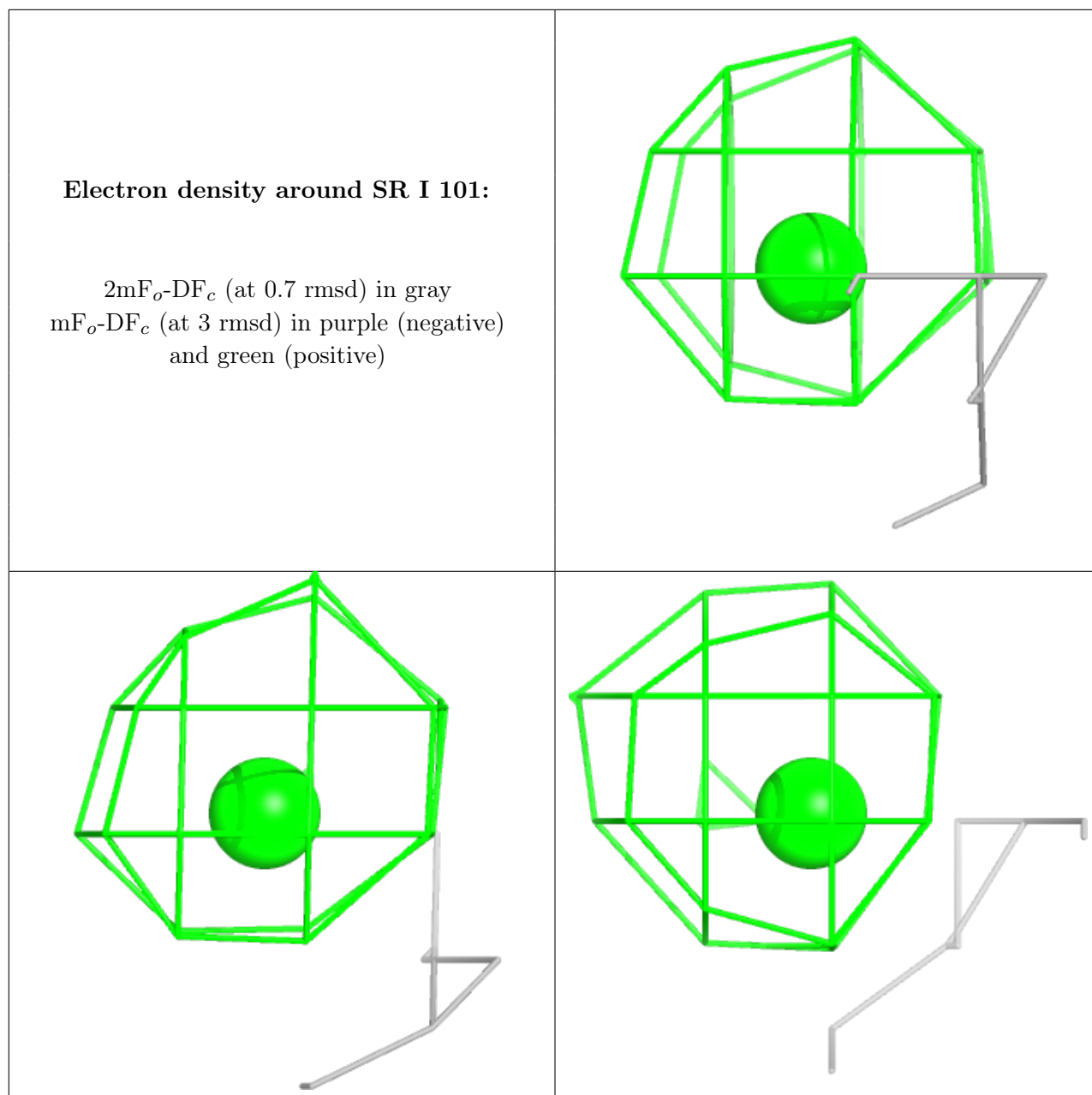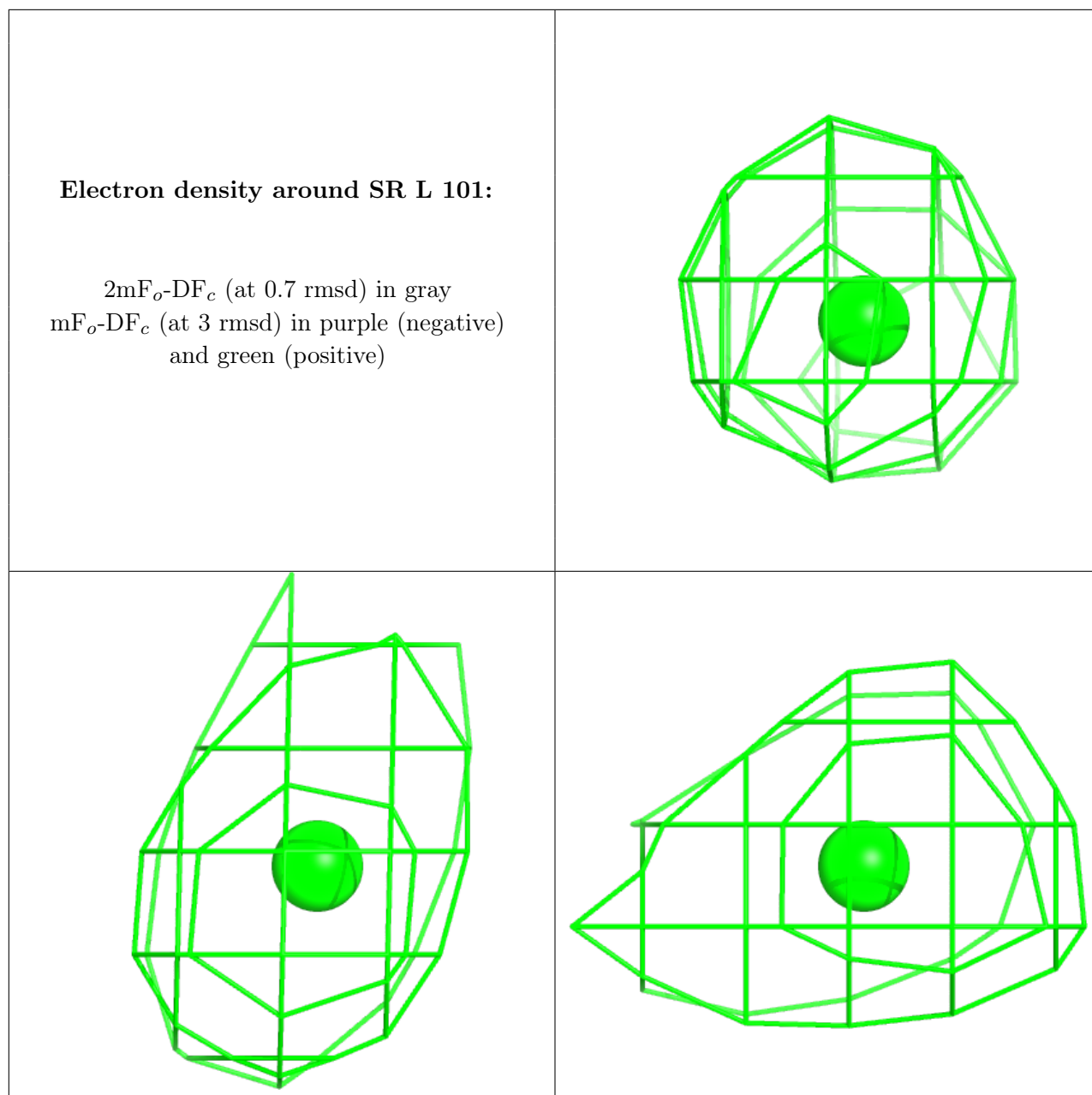
Electron density around SR M 101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
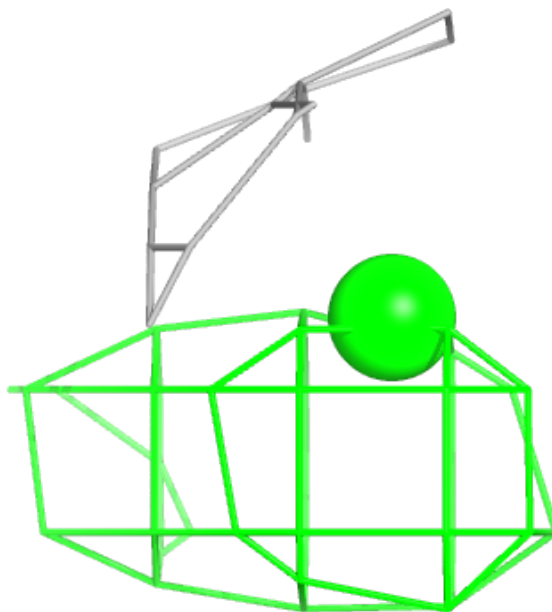mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
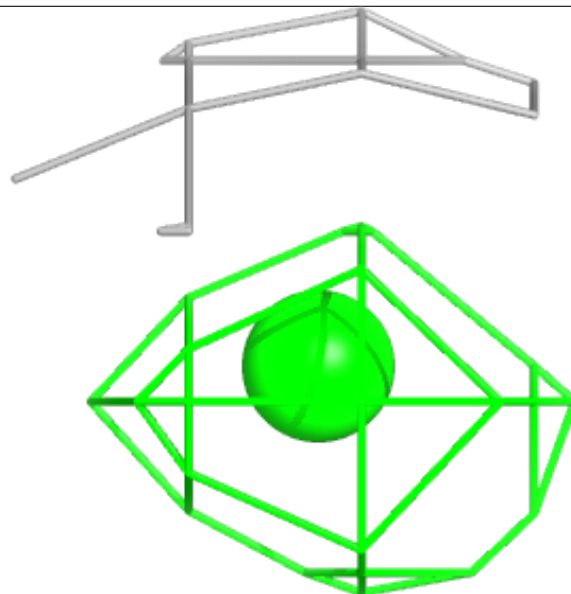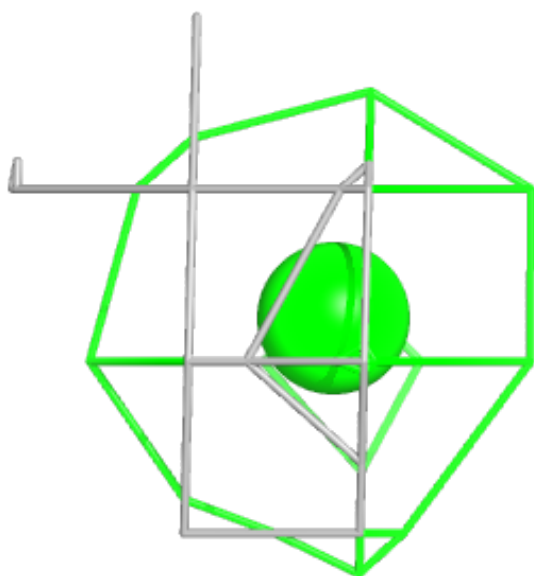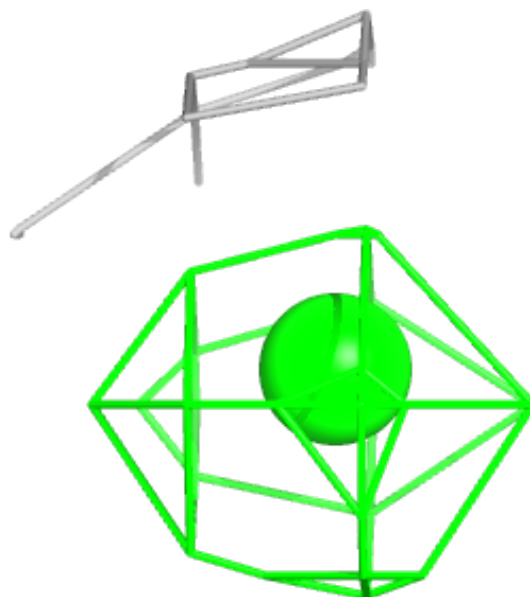
Electron density around SR M 102:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
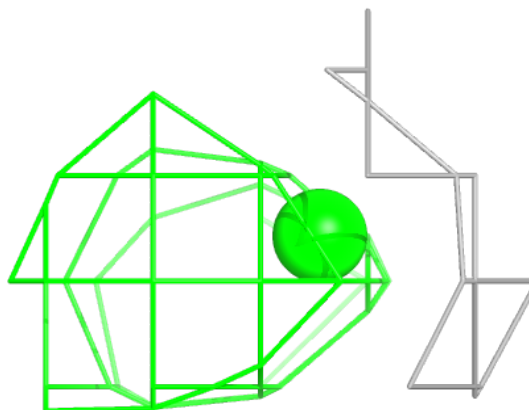and green (positive)
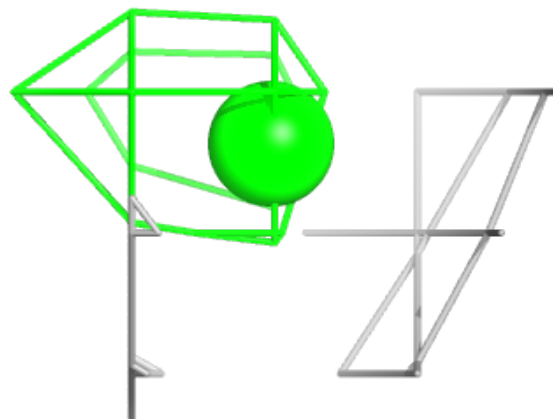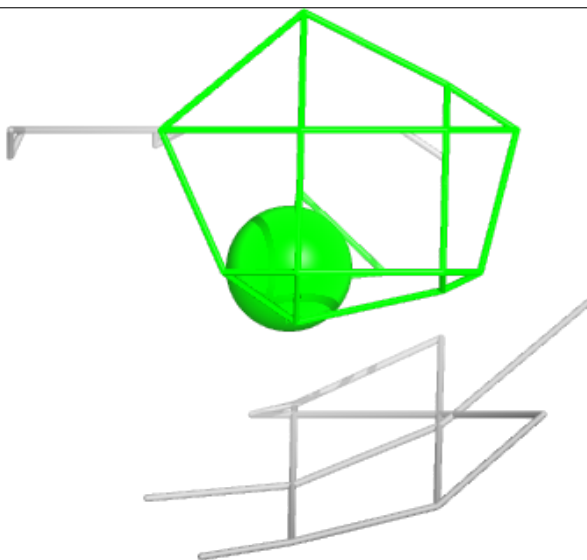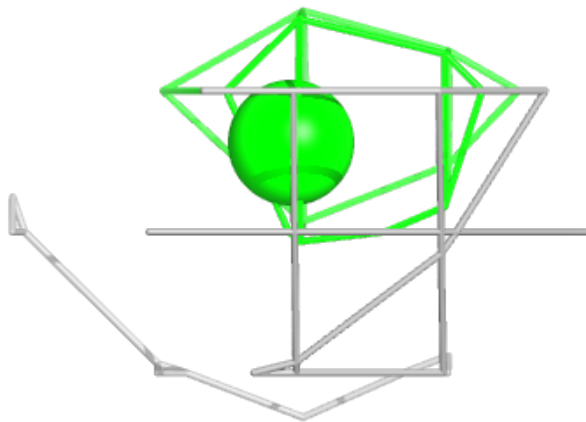
Electron density around SR O 101:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
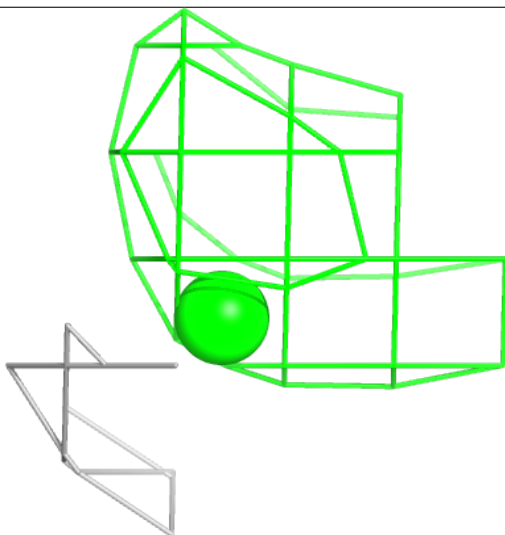and green (positive)
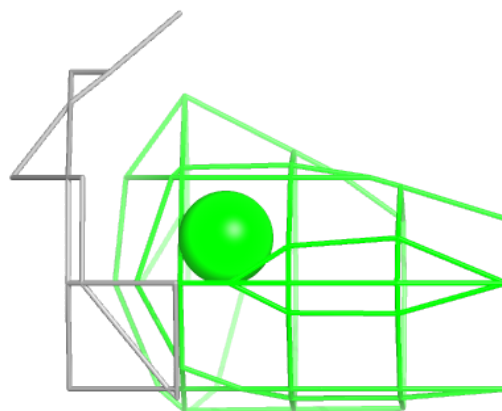
Electron density around SR Q 101:

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

Electron density around SR Q 102:

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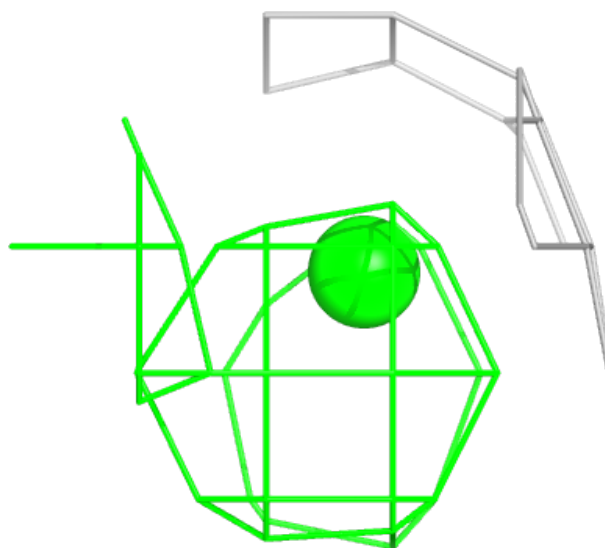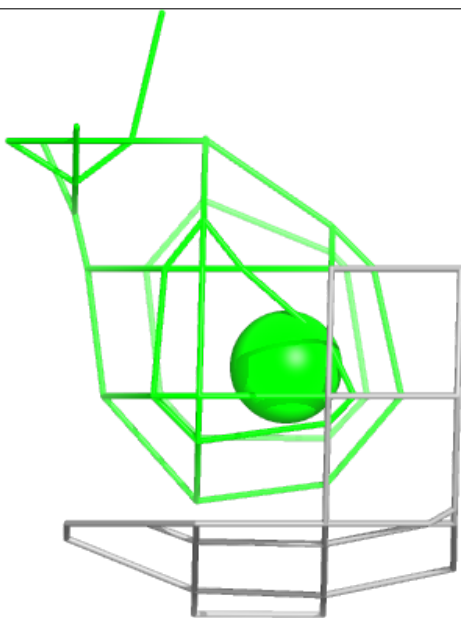and green (positive)

Electron density around SR S 101:

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

Electron density around SR S 102:

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

Electron density around SR U 101:

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

Electron density around SR Y 101:

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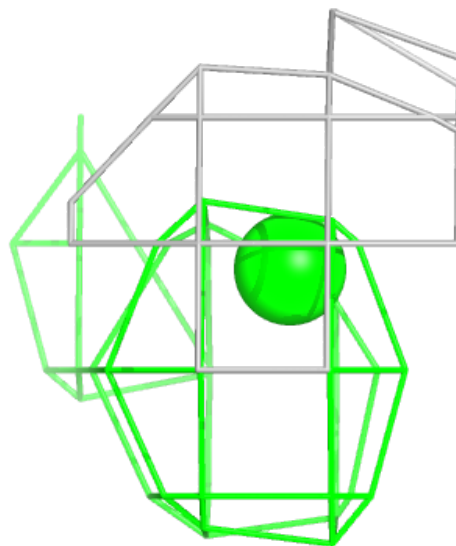and green (positive)

Electron density around SR Y 102:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)
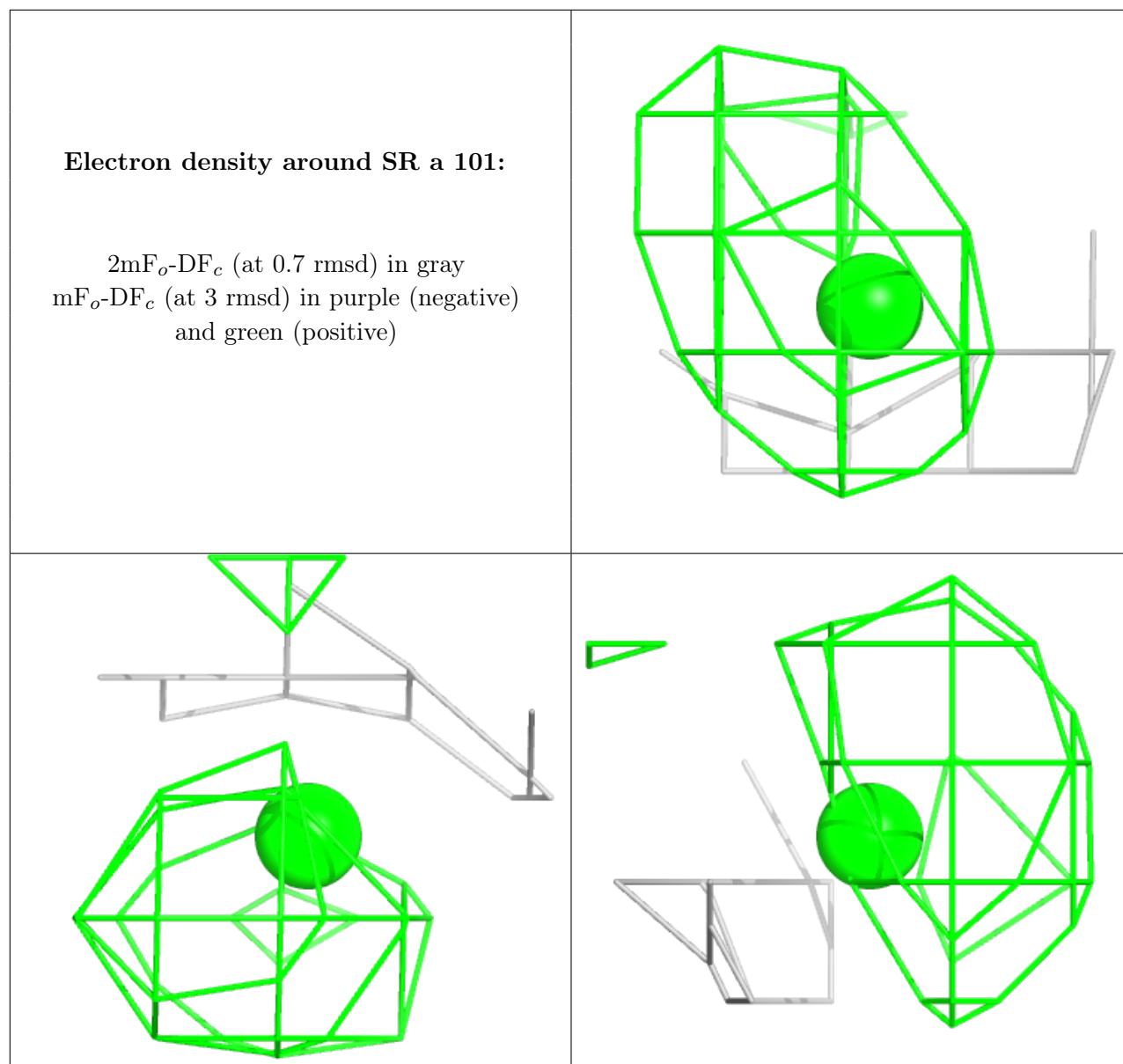
Electron density around SR a 101:

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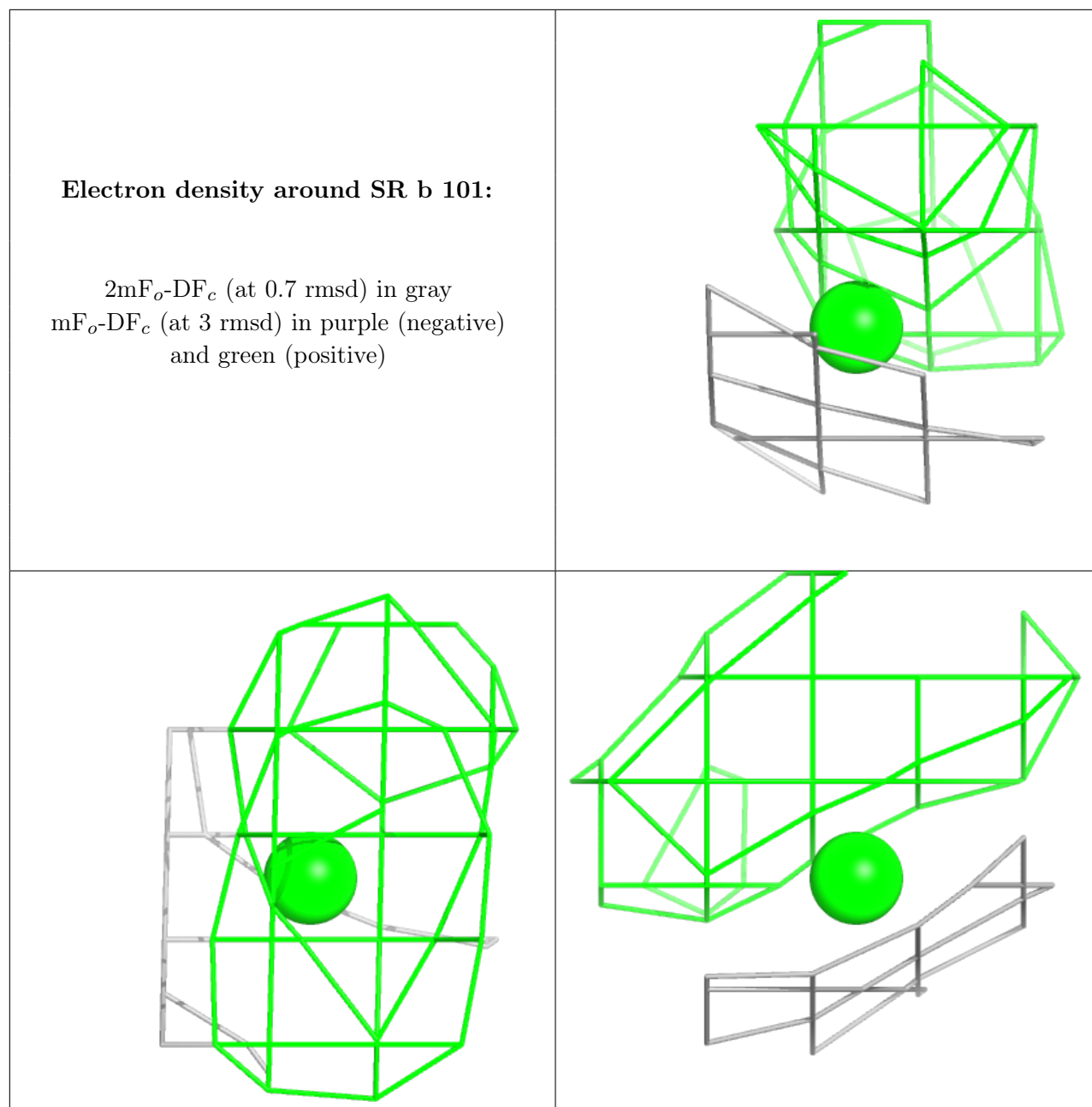mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

Electron density around SR b 101:

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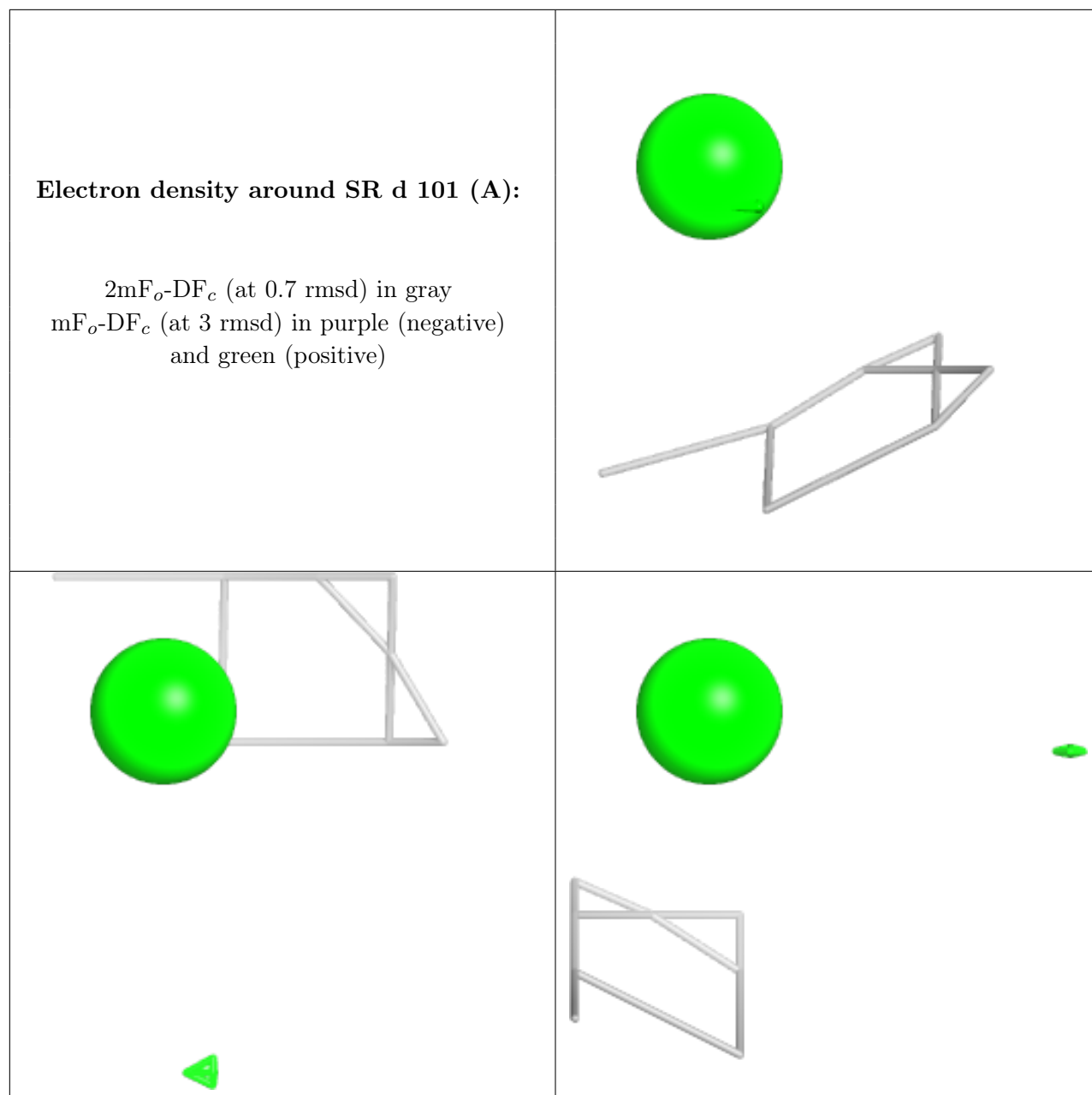mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

Electron density around SR d 101 (A):

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

Electron density around SR d 101 (B):
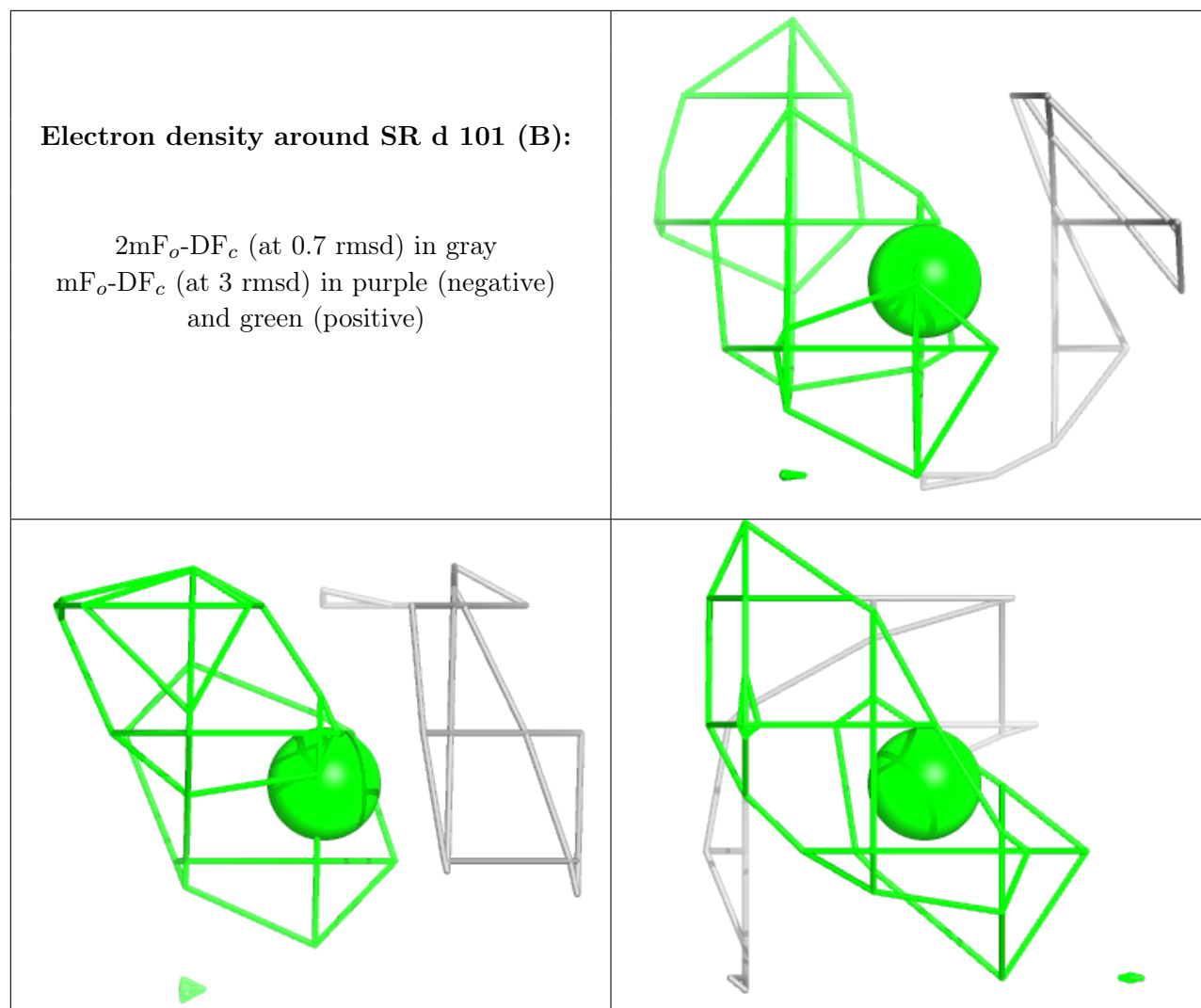
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

6.5 Other polymers ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.