



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 21, 2023 – 02:30 PM JST

PDB ID : 7VSQ
Title : Crystal structure of the tandem B-Box domains of CONSTANS
Authors : Liu, R.; Lv, X.; Du, J.
Deposited on : 2021-10-27
Resolution : 2.70 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 : 2.36
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) : 2.36

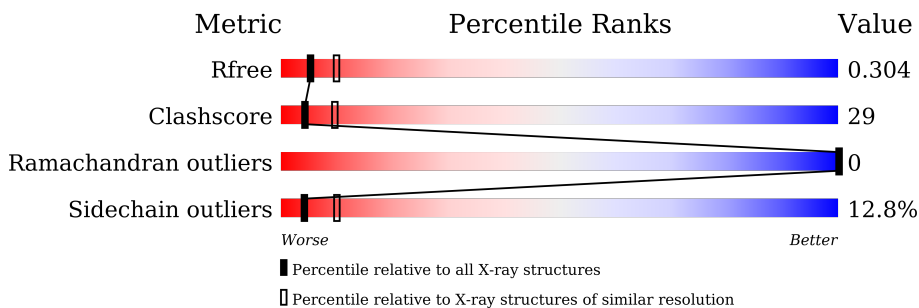
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)

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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	102	61% (green), 25% (yellow), 13% (grey)
1	B	102	47% (green), 31% (yellow), 7% (orange), 15% (grey)
1	C	102	37% (green), 38% (yellow), 9% (orange), 16% (grey)

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 2004 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 Zinc finger protein CONSTANS.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	89	Total 671	C 396	N 135	O 128	S 12	0	0	0
1	B	87	Total 655	C 387	N 130	O 126	S 12	0	0	0
1	C	86	Total 648	C 382	N 129	O 125	S 12	0	0	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	9	SER	-	expression tag	UNP Q39057
B	9	SER	-	expression tag	UNP Q39057
C	9	SER	-	expression tag	UNP Q39057

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	4	Total 4	Zn 4	0	0
2	B	4	Total 4	Zn 4	0	0
2	C	4	Total 4	Zn 4	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	7	Total 7	O 7	0	0
3	B	6	Total 6	O 6	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	C	5	Total	O	0	0
			5	5		

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. 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.

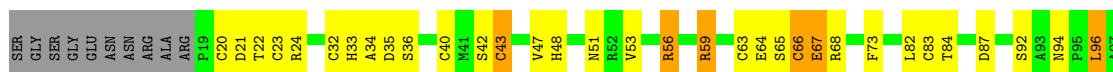
- Molecule 1: Zinc finger protein CONSTANS

Chain A: 



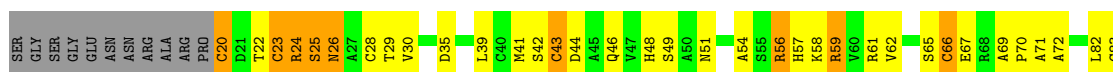
- Molecule 1: Zinc finger protein CONSTANS

Chain B: 



- Molecule 1: Zinc finger protein CONSTANS

Chain C: 



4 Data and refinement statistics i

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	50.81Å 50.81Å 97.62Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	32.68 – 2.70 48.81 – 2.70	Depositor EDS
% Data completeness (in resolution range)	99.0 (32.68-2.70) 99.0 (48.81-2.70)	Depositor EDS
R_{merge}	0.17	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.41 (at 2.69Å)	Xtriage
Refinement program	PHENIX 1.9_1692	Depositor
R, R_{free}	0.277 , 0.305 0.279 , 0.304	Depositor DCC
R_{free} test set	354 reflections (4.60%)	wwPDB-VP
Wilson B-factor (Å ²)	65.5	Xtriage
Anisotropy	0.437	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 52.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	0.096 for -h,-k,l 0.119 for h,-h-k,-l 0.319 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	2004	wwPDB-VP
Average B, all atoms (Å ²)	95.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.62% 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:
ZN

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	0.44	0/682	0.72	0/924
1	B	0.63	0/666	0.83	0/902
1	C	0.56	0/658	0.96	0/891
All	All	0.55	0/2006	0.84	0/2717

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	671	0	627	24	0
1	B	655	0	613	40	0
1	C	648	0	604	50	0
2	A	4	0	0	0	0
2	B	4	0	0	0	0
2	C	4	0	0	0	0
3	A	7	0	0	0	0
3	B	6	0	0	0	0
3	C	5	0	0	5	0
All	All	2004	0	1844	112	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 29.

All (112) 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:40:CYS:SG	1:B:43:CYS:HB2	1.81	1.20
1:B:96:LEU:HA	1:B:99:ARG:HD2	1.36	1.02
1:C:22:THR:HG23	1:C:43:CYS:SG	2.02	0.98
1:C:25:SER:HA	3:C:301:HOH:O	1.74	0.87
1:B:68:ARG:HH11	1:B:68:ARG:HG2	1.39	0.86
1:C:20:CYS:SG	1:C:23:CYS:O	2.36	0.83
1:C:87:ASP:OD2	1:C:102:ARG:HD2	1.79	0.83
1:B:43:CYS:O	1:B:47:VAL:HG23	1.81	0.81
1:C:23:CYS:HB3	1:C:43:CYS:SG	2.21	0.81
1:C:99:ARG:O	1:C:99:ARG:NH2	2.18	0.74
1:A:56:ARG:HH21	1:A:56:ARG:HG3	1.53	0.73
1:C:71:ALA:HA	1:C:83:CYS:HA	1.71	0.71
1:C:87:ASP:OD2	1:C:102:ARG:NH1	2.24	0.71
1:B:68:ARG:HG2	1:B:68:ARG:NH1	2.05	0.70
1:B:23:CYS:O	1:B:24:ARG:HB2	1.93	0.69
1:C:22:THR:CG2	1:C:43:CYS:SG	2.81	0.69
1:A:87:ASP:OD1	1:A:102:ARG:NH2	2.26	0.69
1:C:66:CYS:HB2	1:C:86:CYS:SG	2.33	0.68
1:B:105:ILE:HD12	1:B:105:ILE:H	1.57	0.68
1:A:48:HIS:HD2	1:A:57:HIS:HB2	1.60	0.65
1:A:68:ARG:HG2	1:A:68:ARG:O	1.97	0.65
1:B:56:ARG:HA	1:B:56:ARG:HE	1.62	0.64
1:B:96:LEU:CA	1:B:99:ARG:HD2	2.21	0.64
1:A:61:ARG:NH2	1:A:81:SER:OG	2.31	0.63
1:C:48:HIS:HD2	1:C:57:HIS:HB2	1.63	0.63
1:C:48:HIS:HA	1:C:54:ALA:HB1	1.81	0.63
1:C:44:ASP:OD2	1:C:59:ARG:HD2	2.01	0.61
1:C:56:ARG:O	1:C:56:ARG:HD3	2.00	0.61
1:C:87:ASP:CG	1:C:102:ARG:HH11	2.04	0.61
1:C:65:SER:OG	1:C:66:CYS:N	2.32	0.61
1:A:91:HIS:CE1	1:A:102:ARG:HD3	2.36	0.60
1:A:62:VAL:HG23	1:A:69:ALA:O	2.02	0.59
1:C:72:ALA:O	1:C:105:ILE:N	2.25	0.58
1:B:48:HIS:HB2	1:B:59:ARG:HH12	1.69	0.57
1:C:51:ASN:HB2	1:C:54:ALA:H	1.69	0.57
1:C:82:LEU:HD11	1:C:87:ASP:HA	1.87	0.57
1:A:48:HIS:HA	1:A:54:ALA:HB1	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:ASN:HB2	1:A:97:ALA:H	1.71	0.56
1:C:25:SER:N	3:C:301:HOH:O	2.36	0.56
1:B:96:LEU:HA	1:B:99:ARG:CD	2.23	0.56
1:B:66:CYS:SG	1:B:67:GLU:N	2.80	0.55
1:B:65:SER:HB3	1:B:82:LEU:HD22	1.89	0.55
1:B:103:VAL:HG22	1:B:104:PRO:HD2	1.87	0.54
1:C:24:ARG:C	3:C:301:HOH:O	2.44	0.54
1:B:63:CYS:O	1:B:67:GLU:HA	2.08	0.54
1:C:25:SER:CA	3:C:301:HOH:O	2.41	0.54
1:A:66:CYS:O	1:A:67:GLU:HB2	2.07	0.53
1:B:56:ARG:HA	1:B:56:ARG:NE	2.23	0.53
1:B:66:CYS:C	1:B:67:GLU:HG3	2.28	0.53
1:B:32:CYS:HB3	1:B:35:ASP:HB2	1.92	0.52
1:C:29:THR:HG21	1:C:41:MET:HB2	1.91	0.52
1:C:66:CYS:CB	1:C:86:CYS:SG	2.97	0.52
1:A:48:HIS:CD2	1:A:59:ARG:HD3	2.44	0.52
1:B:84:THR:O	1:B:87:ASP:HB3	2.10	0.52
1:A:87:ASP:OD2	1:A:102:ARG:HD2	2.10	0.51
1:A:56:ARG:O	1:A:56:ARG:HG2	2.09	0.51
1:C:43:CYS:O	1:C:46:GLN:N	2.44	0.51
1:A:97:ALA:HA	1:A:100:HIS:CD2	2.47	0.50
1:B:20:CYS:SG	1:B:40:CYS:N	2.85	0.50
1:B:43:CYS:O	1:B:47:VAL:CG2	2.56	0.50
1:C:58:LYS:N	1:C:58:LYS:HD2	2.27	0.49
1:C:23:CYS:CB	1:C:43:CYS:SG	2.97	0.49
1:B:73:PHE:HE2	1:B:84:THR:HG22	1.77	0.49
1:A:56:ARG:HG3	1:A:56:ARG:NH2	2.25	0.48
1:A:91:HIS:CD2	1:A:100:HIS:HB2	2.48	0.48
1:C:48:HIS:CD2	1:C:57:HIS:HB2	2.44	0.48
1:C:94:ASN:HB2	1:C:95:PRO:HD2	1.96	0.48
1:B:33:HIS:C	1:B:36:SER:H	2.17	0.48
1:B:23:CYS:O	1:B:24:ARG:CB	2.57	0.47
1:C:22:THR:HG21	1:C:39:LEU:HG	1.96	0.47
1:A:105:ILE:H	1:A:105:ILE:HD12	1.80	0.47
1:C:44:ASP:CG	1:C:59:ARG:HD2	2.36	0.47
1:B:51:ASN:OD1	1:B:53:VAL:N	2.46	0.47
1:C:26:ASN:N	1:C:26:ASN:OD1	2.47	0.46
1:C:20:CYS:N	3:C:302:HOH:O	2.48	0.46
1:B:73:PHE:CE2	1:B:84:THR:HG22	2.49	0.46
1:C:56:ARG:NH2	1:C:58:LYS:HG3	2.31	0.46
1:C:91:HIS:HA	1:C:97:ALA:HB1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:35:ASP:OD1	1:C:57:HIS:ND1	2.49	0.46
1:C:69:ALA:O	1:C:83:CYS:HB3	2.16	0.46
1:B:32:CYS:O	1:B:36:SER:N	2.49	0.45
1:A:68:ARG:O	1:A:68:ARG:CG	2.64	0.45
1:C:62:VAL:HA	1:C:70:PRO:HA	1.98	0.45
1:A:62:VAL:CG2	1:A:69:ALA:O	2.63	0.45
1:C:91:HIS:HD2	1:C:97:ALA:O	2.00	0.45
1:A:20:CYS:O	1:A:24:ARG:HA	2.17	0.45
1:B:68:ARG:NH1	1:B:68:ARG:CG	2.73	0.44
1:B:96:LEU:O	1:B:99:ARG:HB2	2.18	0.44
1:B:63:CYS:HB3	1:B:83:CYS:H	1.82	0.44
1:A:51:ASN:OD1	1:A:53:VAL:N	2.50	0.44
1:B:64:GLU:O	1:B:67:GLU:HG2	2.17	0.44
1:A:91:HIS:HD2	1:A:100:HIS:HB2	1.82	0.44
1:C:22:THR:HG23	1:C:23:CYS:N	2.32	0.43
1:C:61:ARG:HD3	1:C:105:ILE:HD11	1.99	0.43
1:A:98:ARG:NH2	1:B:34:ALA:HA	2.33	0.43
1:C:87:ASP:CG	1:C:102:ARG:HD2	2.39	0.43
1:A:98:ARG:HH22	1:B:34:ALA:HA	1.84	0.43
1:C:69:ALA:HA	1:C:70:PRO:HD3	1.78	0.43
1:B:94:ASN:O	1:B:98:ARG:HG3	2.18	0.43
1:C:99:ARG:HH22	1:C:101:GLN:CG	2.31	0.43
1:C:43:CYS:O	1:C:44:ASP:C	2.56	0.42
1:B:21:ASP:HA	1:B:24:ARG:HH21	1.85	0.42
1:B:65:SER:O	1:B:66:CYS:SG	2.78	0.42
1:C:86:CYS:HA	1:C:89:GLU:HB3	2.02	0.42
1:B:105:ILE:HD12	1:B:105:ILE:N	2.31	0.41
1:C:22:THR:CG2	1:C:39:LEU:HG	2.51	0.41
1:B:63:CYS:HB3	1:B:83:CYS:N	2.35	0.41
1:C:30:VAL:HG23	1:C:39:LEU:HB2	2.02	0.41
1:B:22:THR:HB	1:B:43:CYS:SG	2.61	0.41
1:C:99:ARG:HH22	1:C:101:GLN:HG2	1.85	0.40
1:B:66:CYS:N	1:B:67:GLU:HG3	2.36	0.40
1:C:85:ALA:O	1:C:89:GLU:N	2.49	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	87/102 (85%)	84 (97%)	3 (3%)	0	100	100
1	B	85/102 (83%)	82 (96%)	3 (4%)	0	100	100
1	C	84/102 (82%)	81 (96%)	3 (4%)	0	100	100
All	All	256/306 (84%)	247 (96%)	9 (4%)	0	100	100

There are no Ramachandran outliers to report.

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	74/84 (88%)	70 (95%)	4 (5%)	22	47
1	B	73/84 (87%)	63 (86%)	10 (14%)	3	8
1	C	72/84 (86%)	58 (81%)	14 (19%)	1	3
All	All	219/252 (87%)	191 (87%)	28 (13%)	4	10

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	24	ARG
1	A	25	SER
1	A	83	CYS
1	A	103	VAL
1	B	42	SER

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Mol	Chain	Res	Type
1	B	43	CYS
1	B	56	ARG
1	B	59	ARG
1	B	66	CYS
1	B	67	GLU
1	B	92	SER
1	B	96	LEU
1	B	102	ARG
1	B	103	VAL
1	C	20	CYS
1	C	23	CYS
1	C	24	ARG
1	C	25	SER
1	C	26	ASN
1	C	28	CYS
1	C	42	SER
1	C	43	CYS
1	C	49	SER
1	C	56	ARG
1	C	59	ARG
1	C	66	CYS
1	C	67	GLU
1	C	84	THR

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	100	HIS
1	B	26	ASN
1	B	33	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 12 ligands modelled in this entry, 12 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

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.

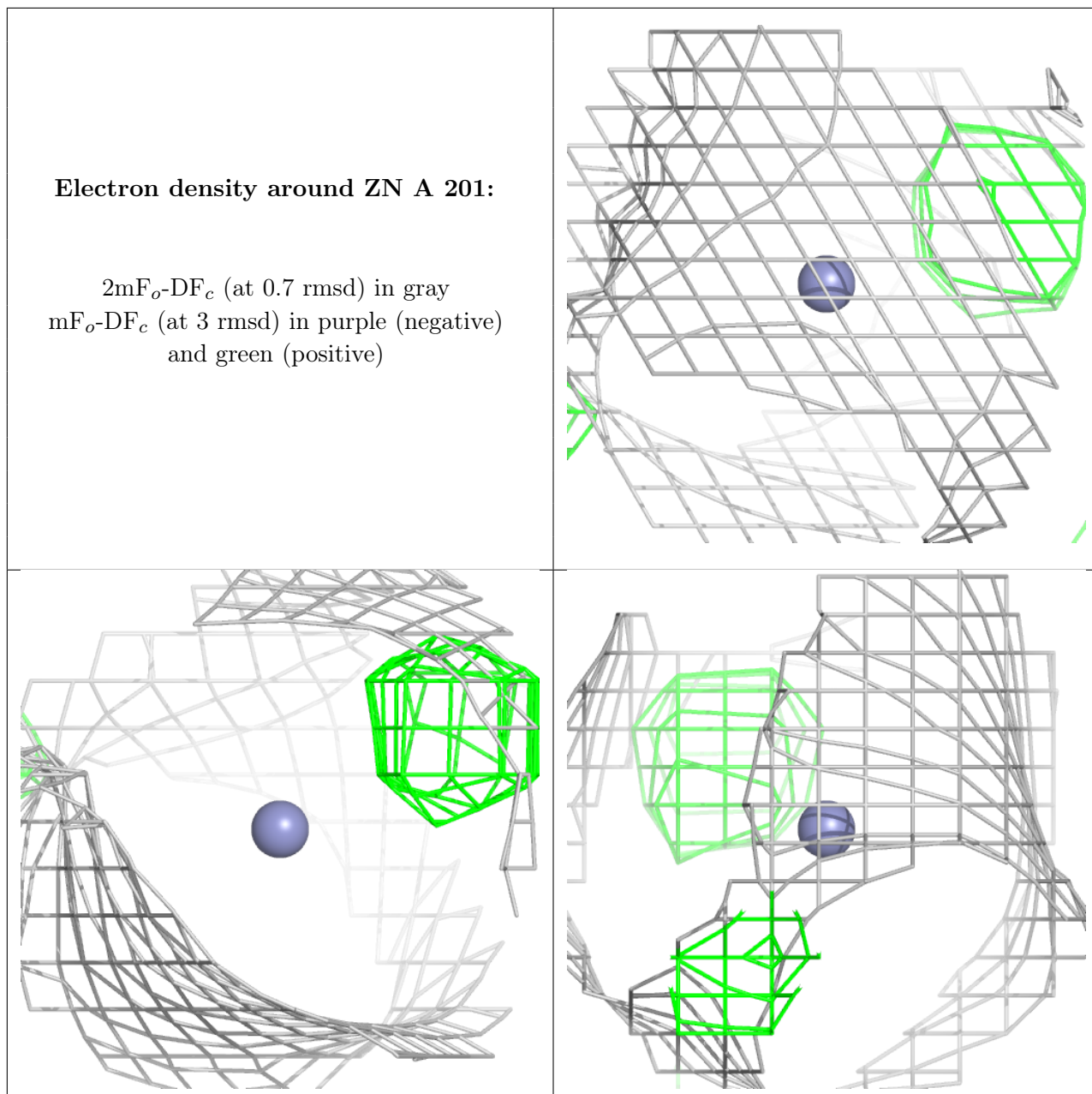
6.4 Ligands

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.

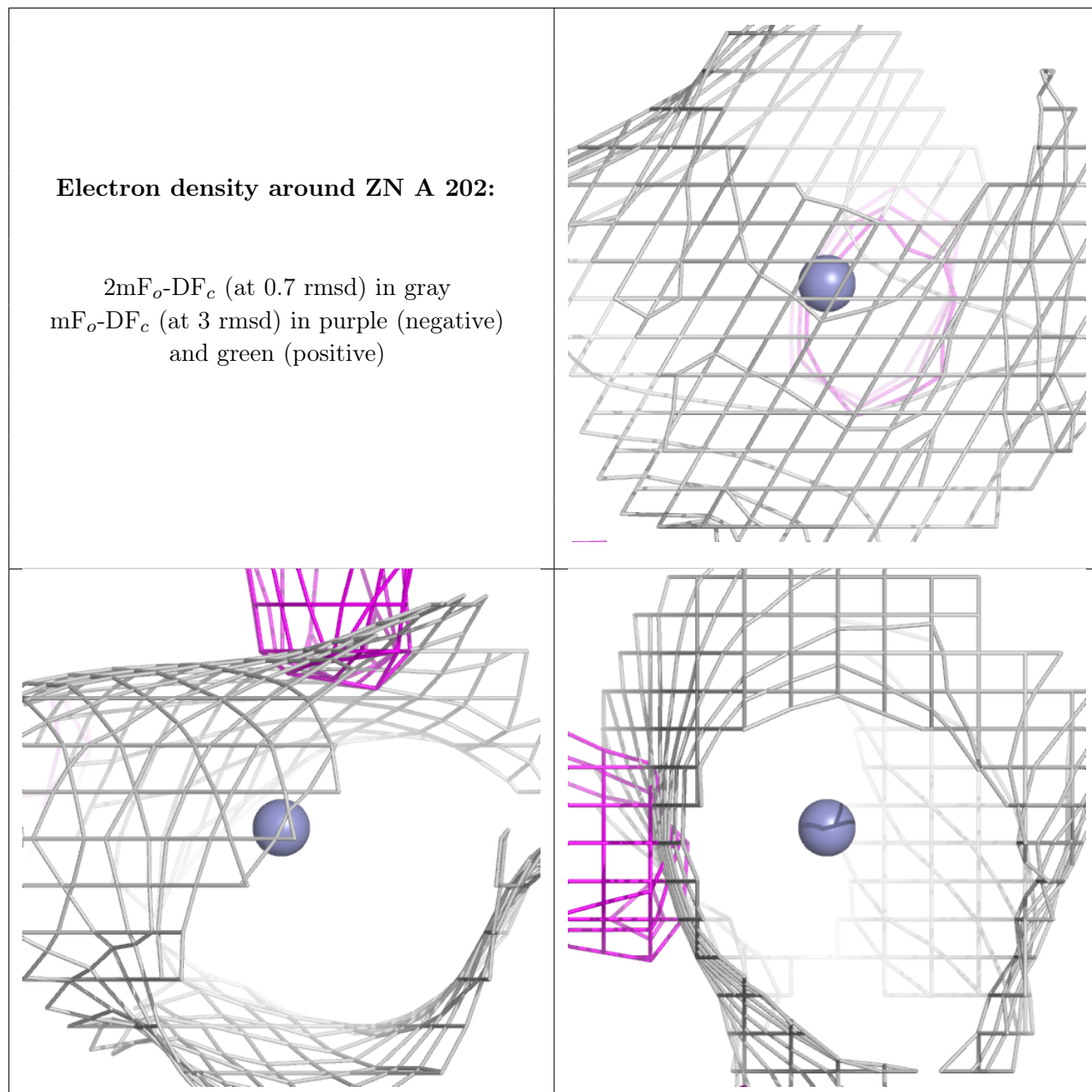
Electron density around ZN A 201:

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



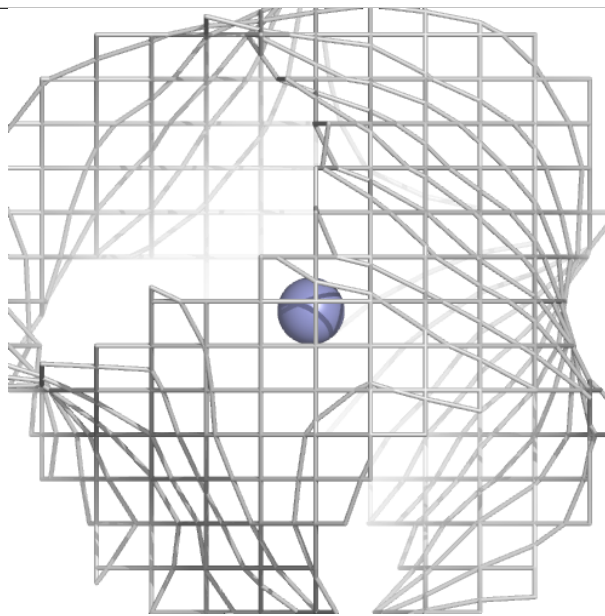
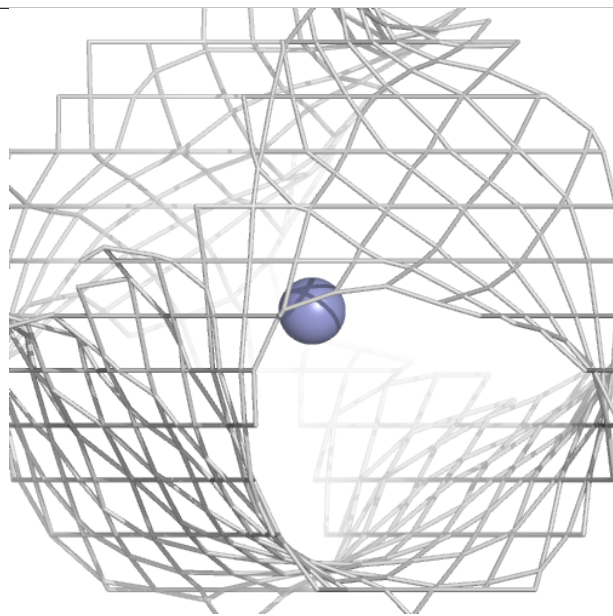
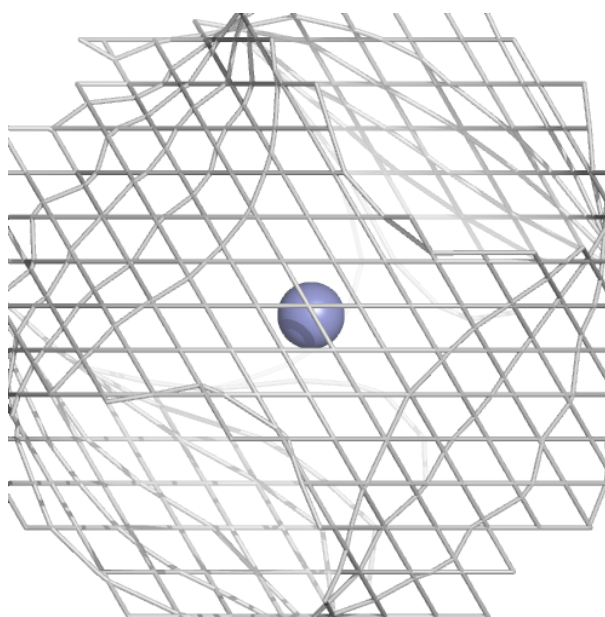
Electron density around ZN A 202:

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



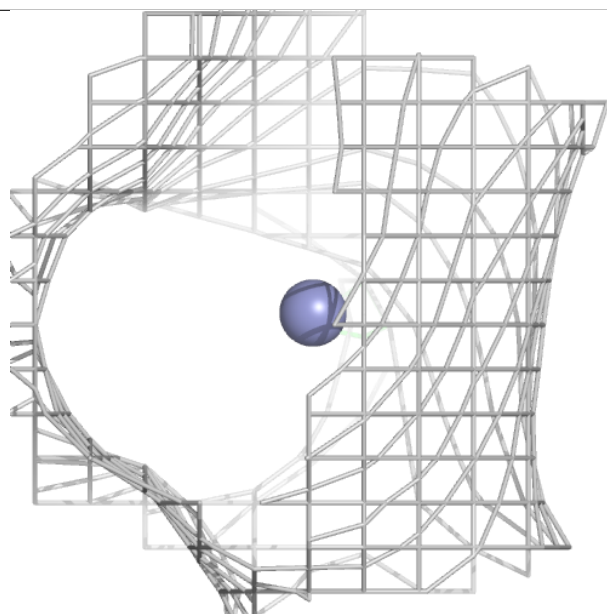
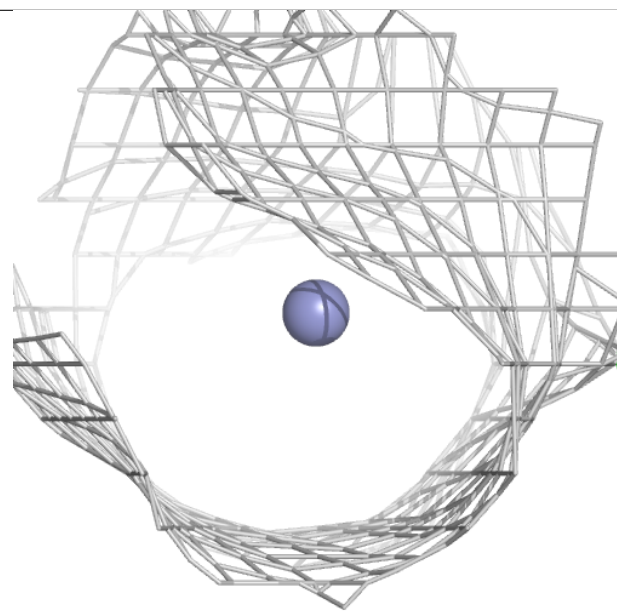
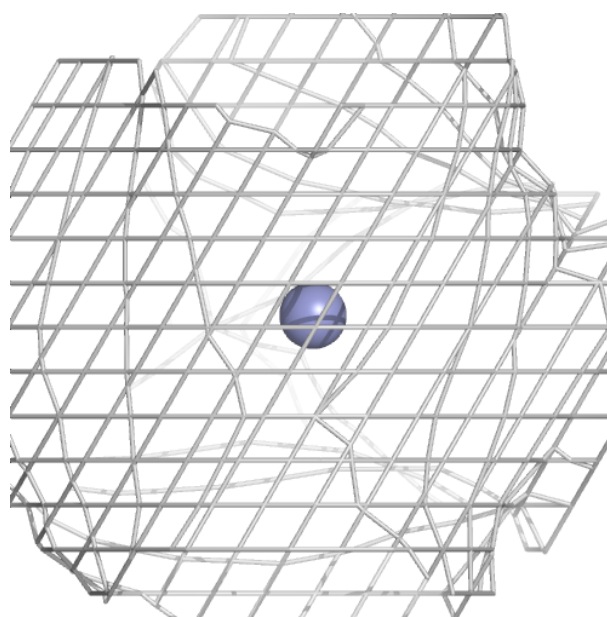
Electron density around ZN A 203:

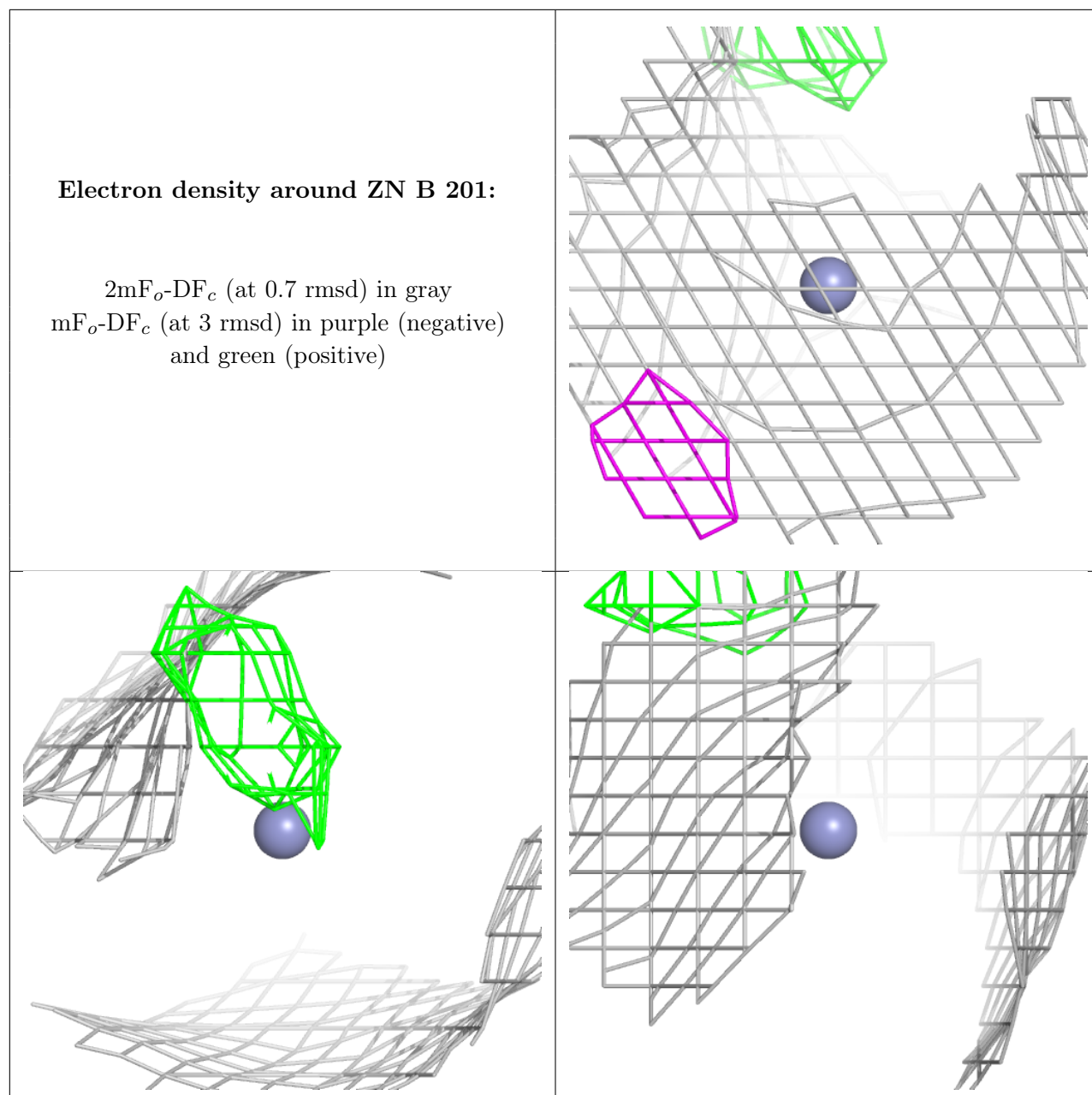
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around ZN A 204:

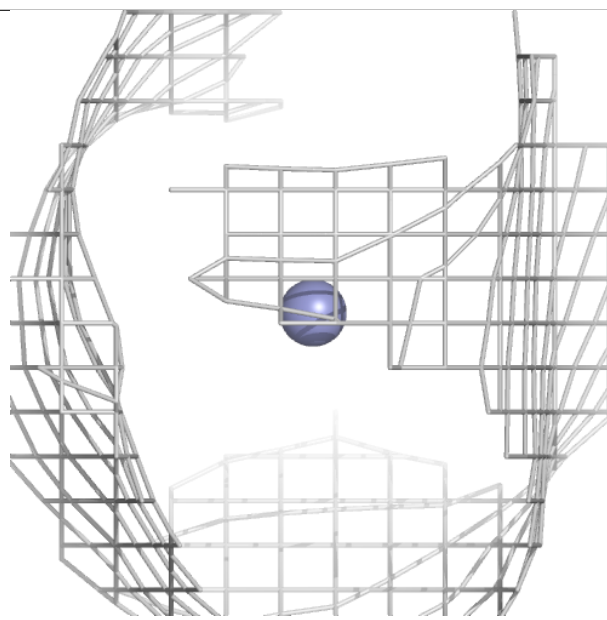
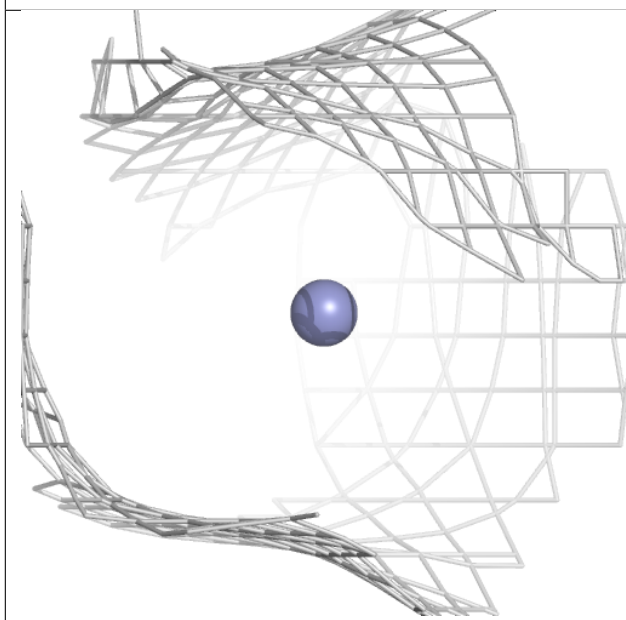
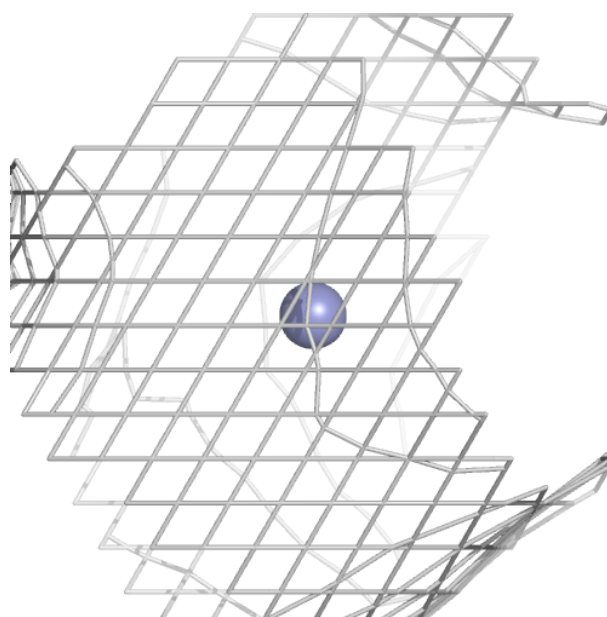
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





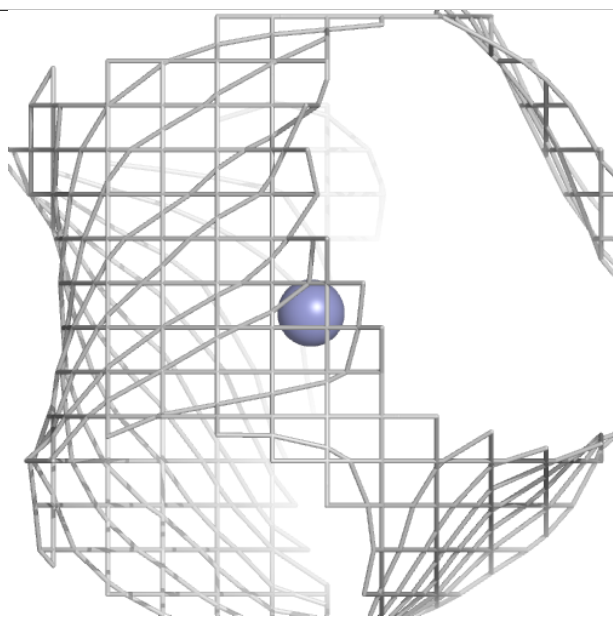
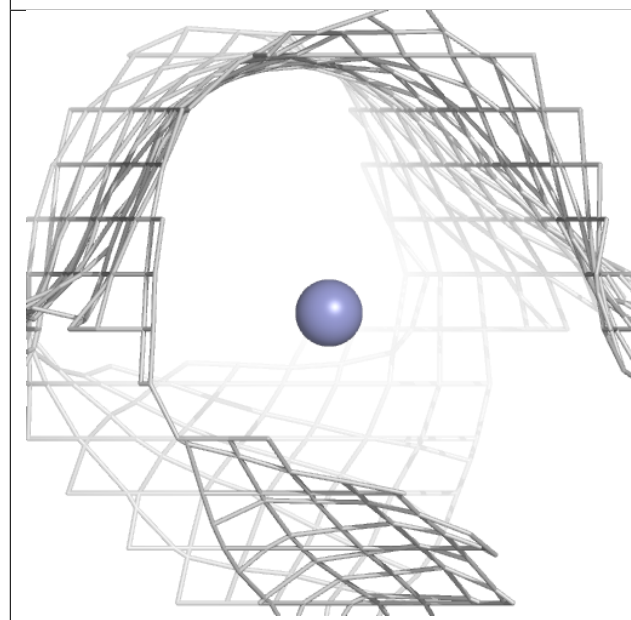
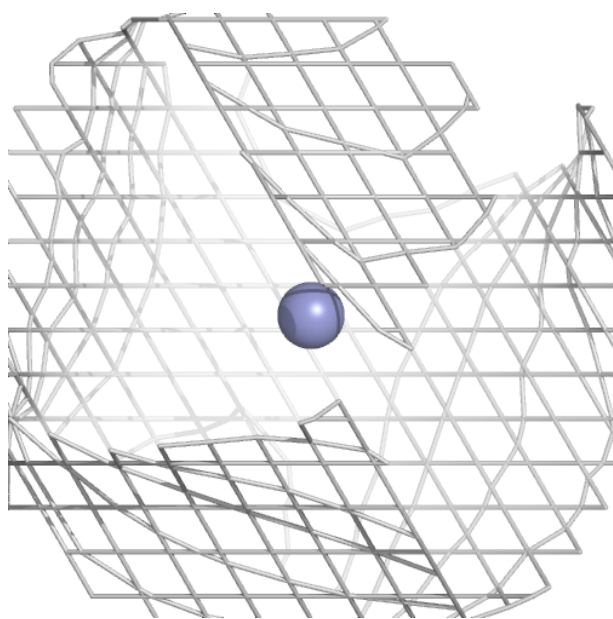
Electron density around ZN B 202:

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



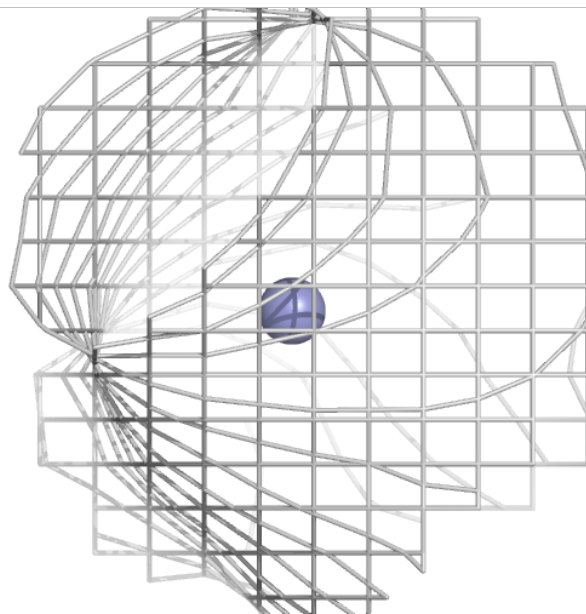
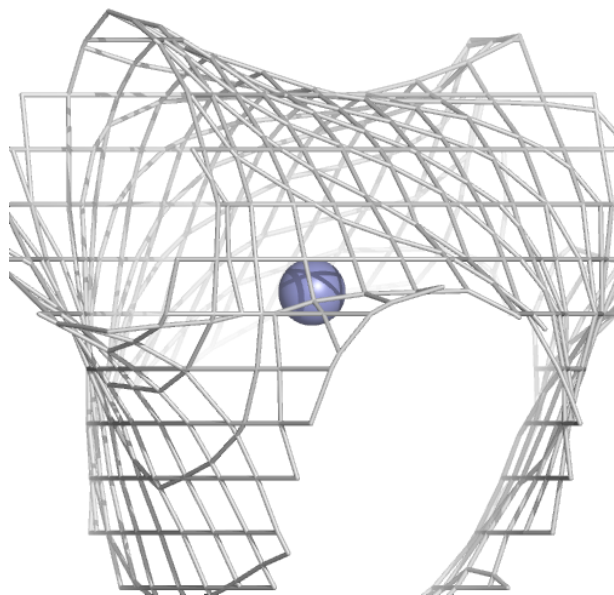
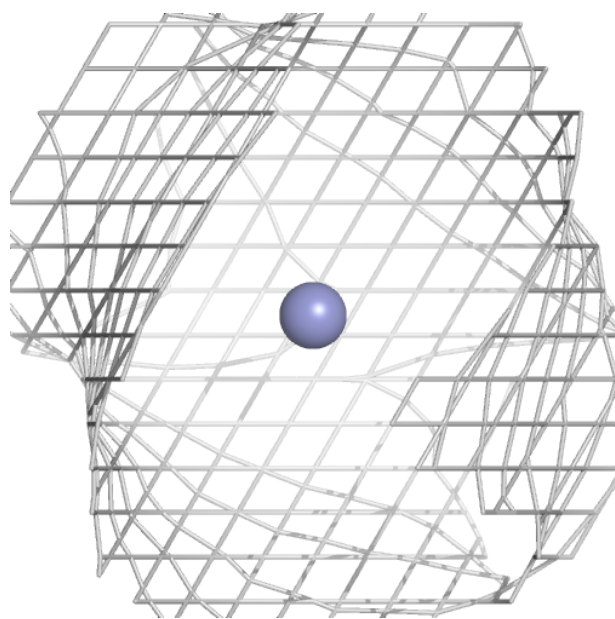
Electron density around ZN B 203:

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



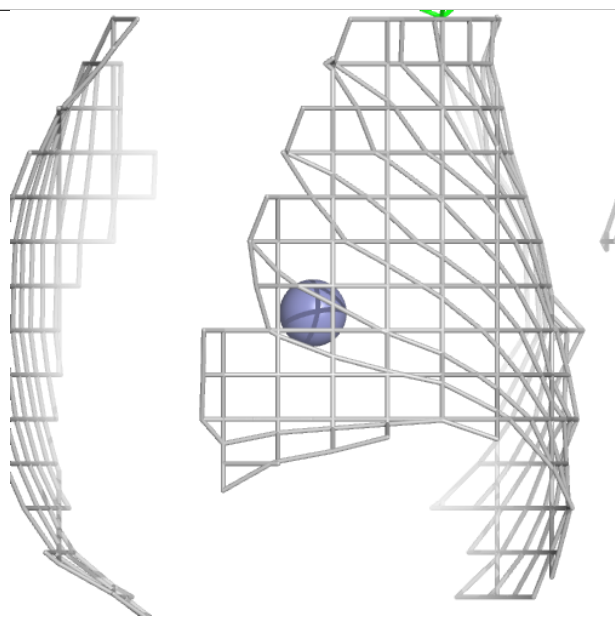
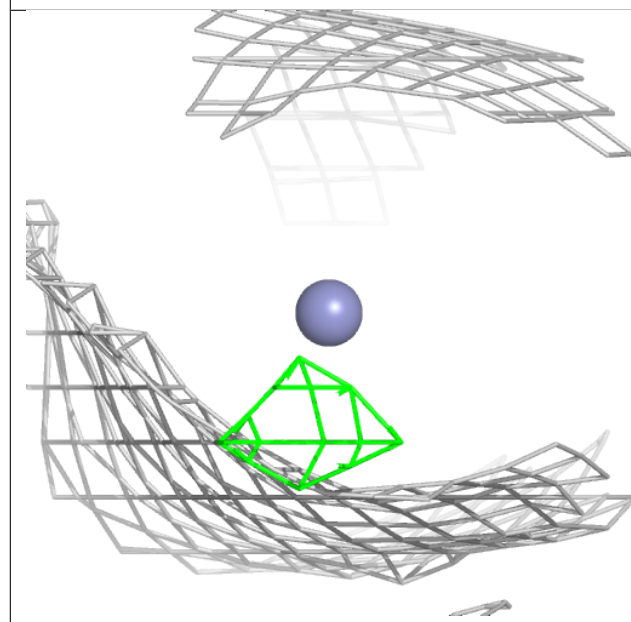
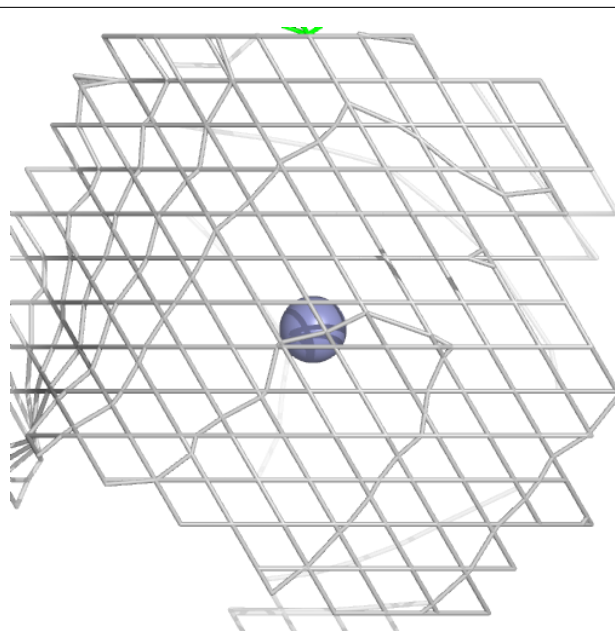
Electron density around ZN B 204:

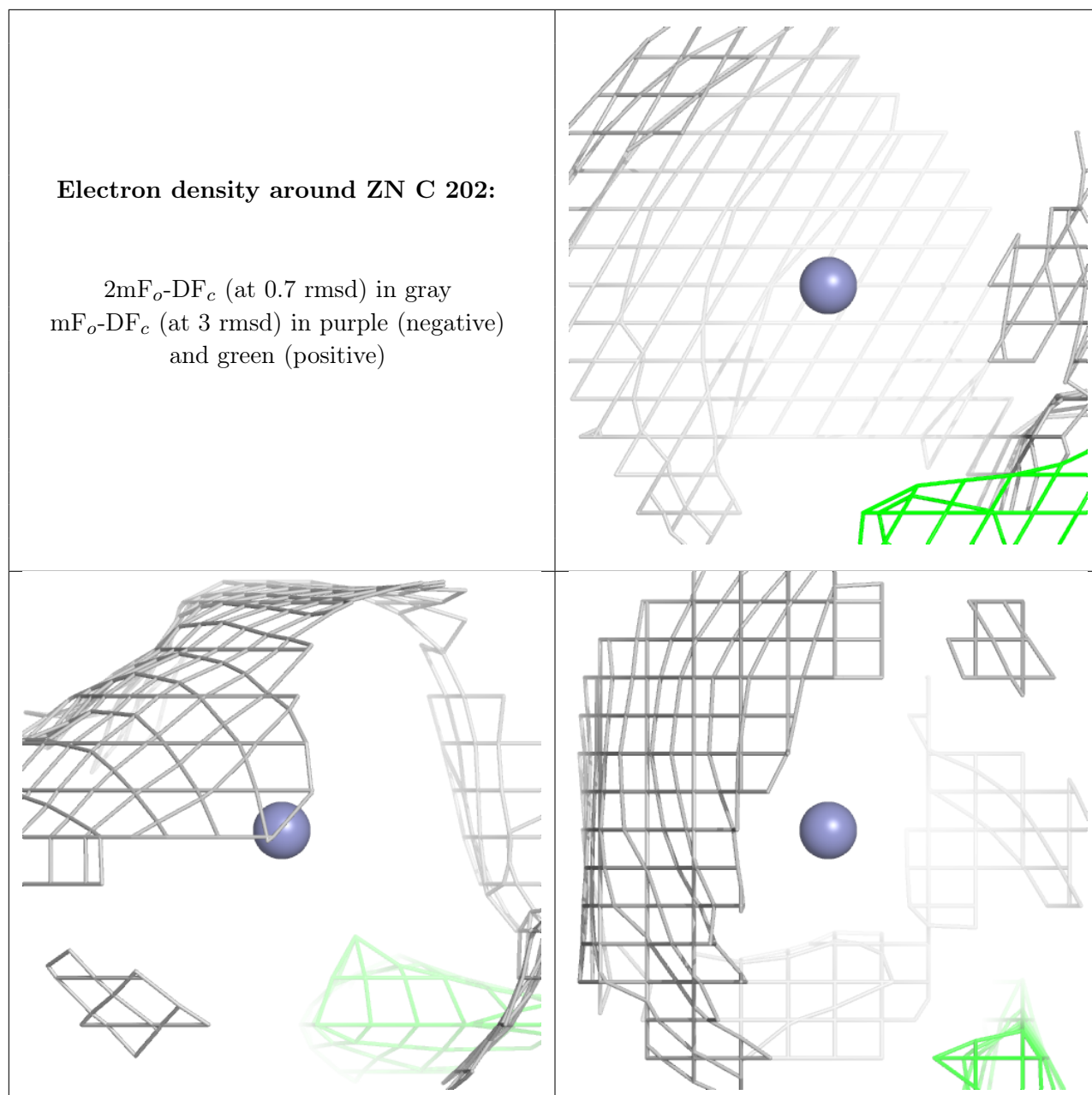
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around ZN C 201:

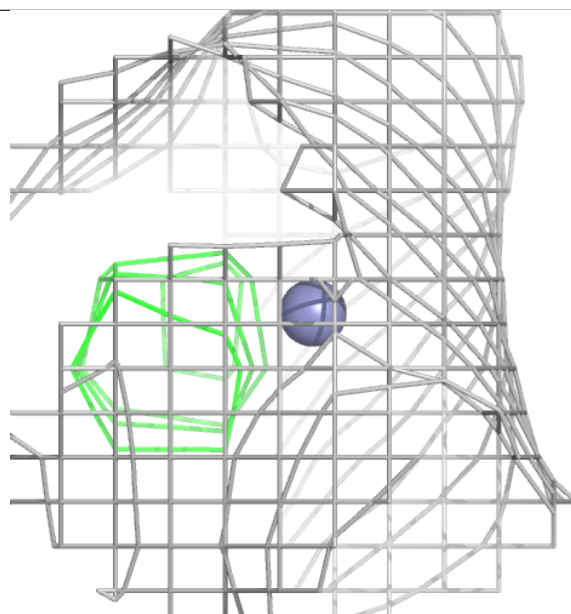
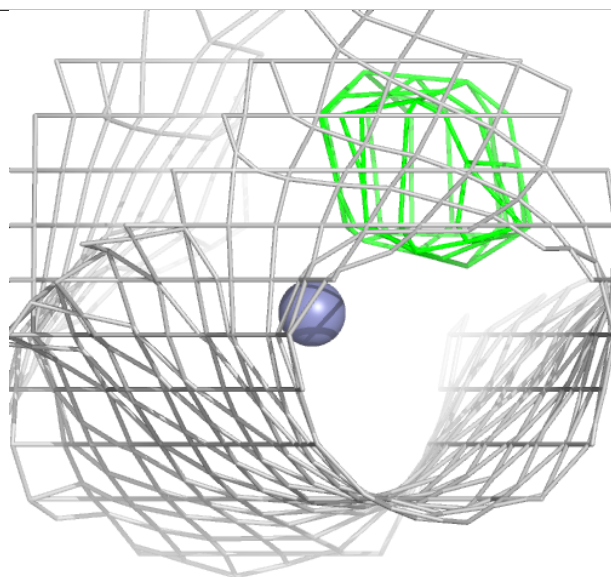
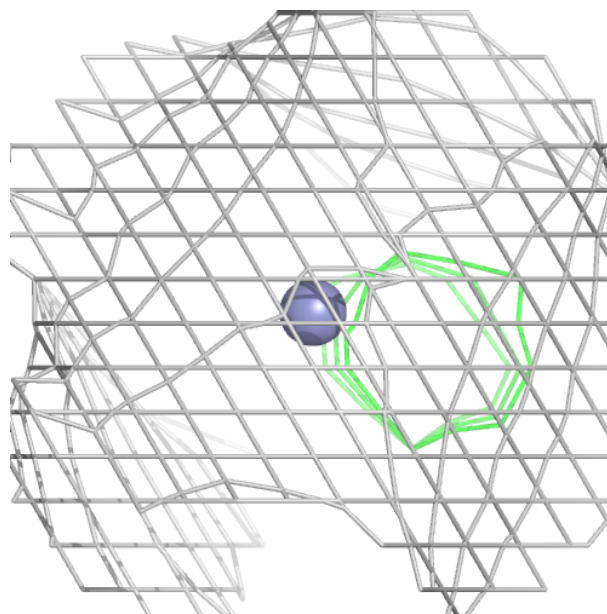
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

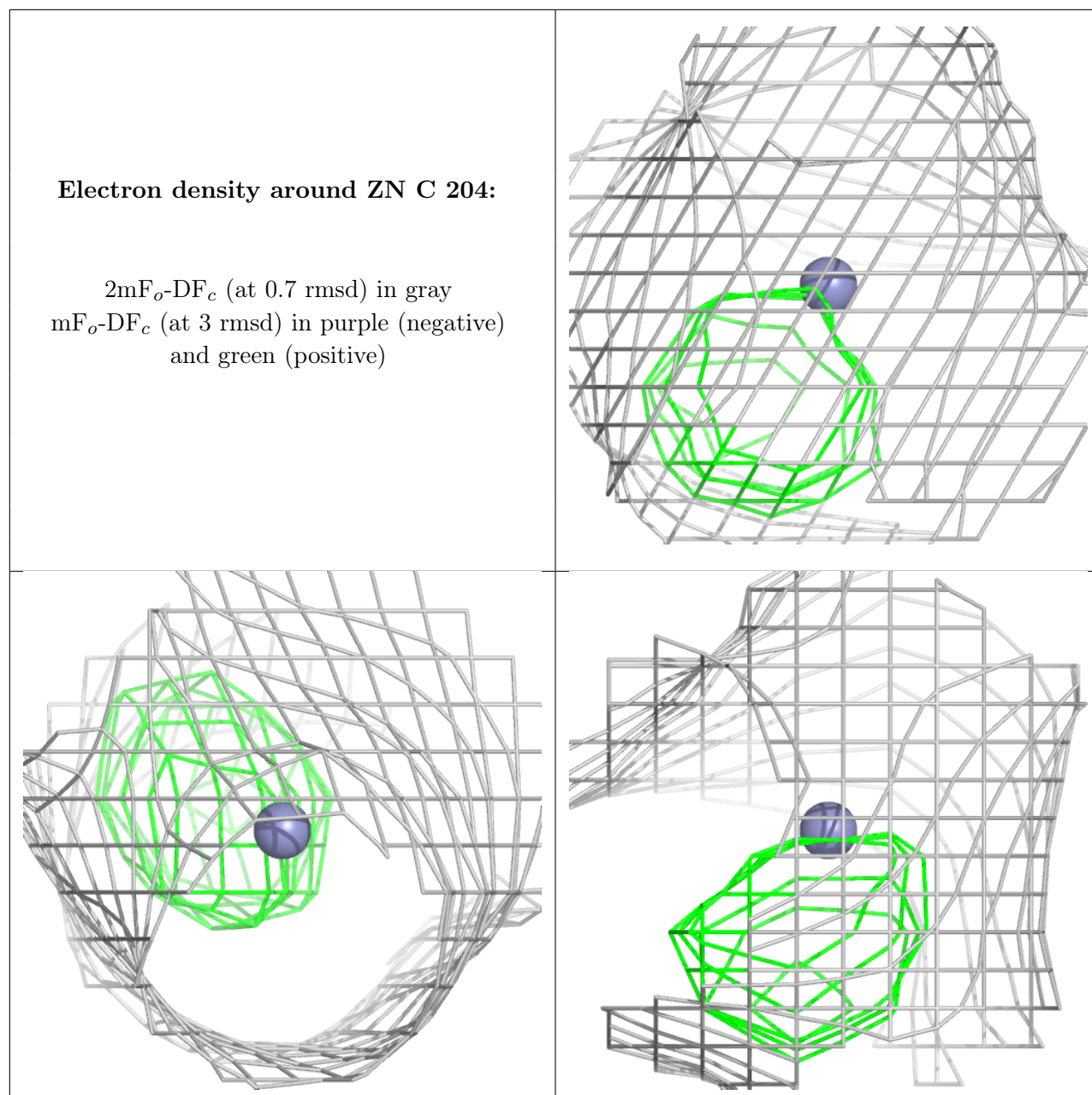




Electron density around ZN C 203:

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





6.5 Other polymers [i](#)

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