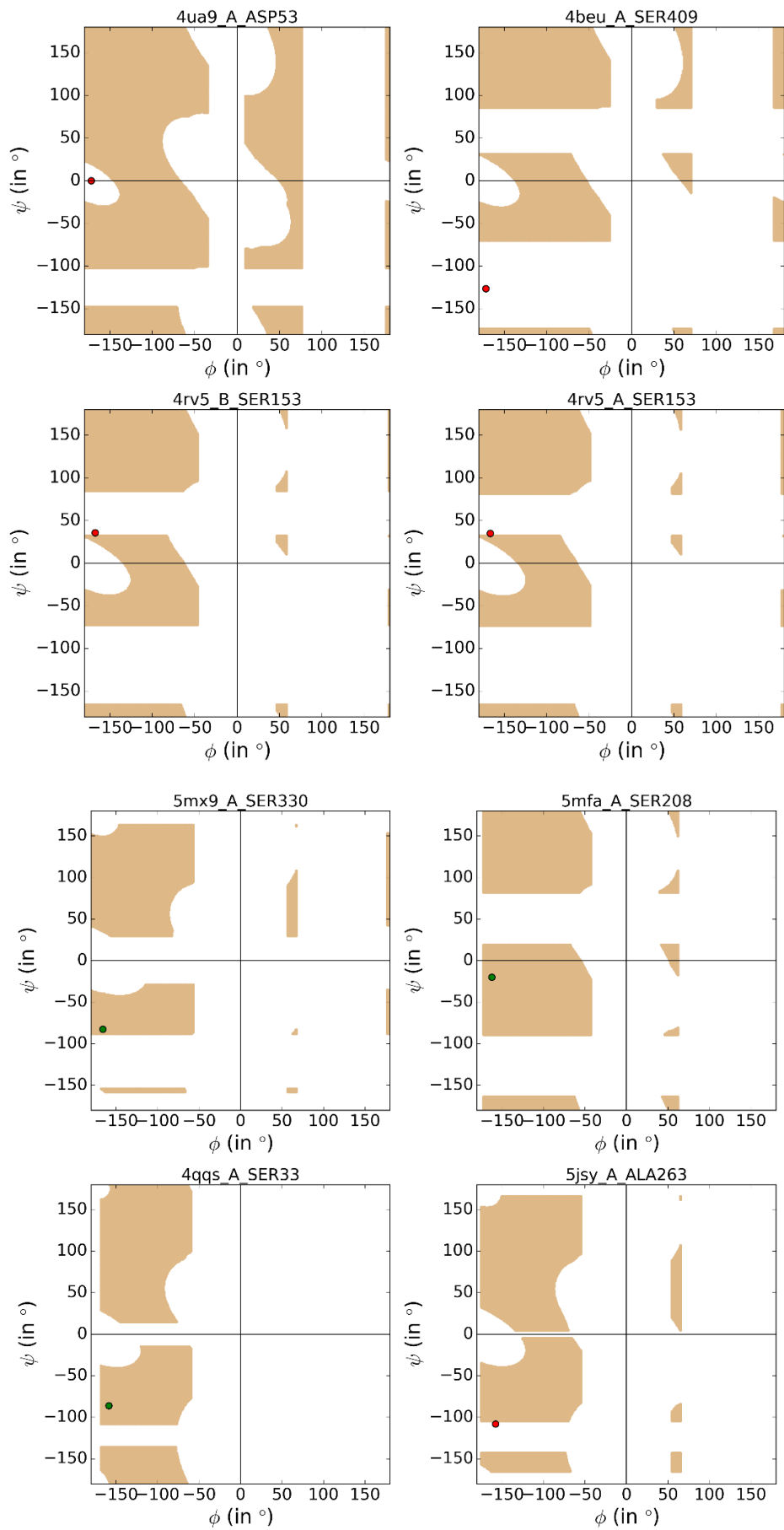
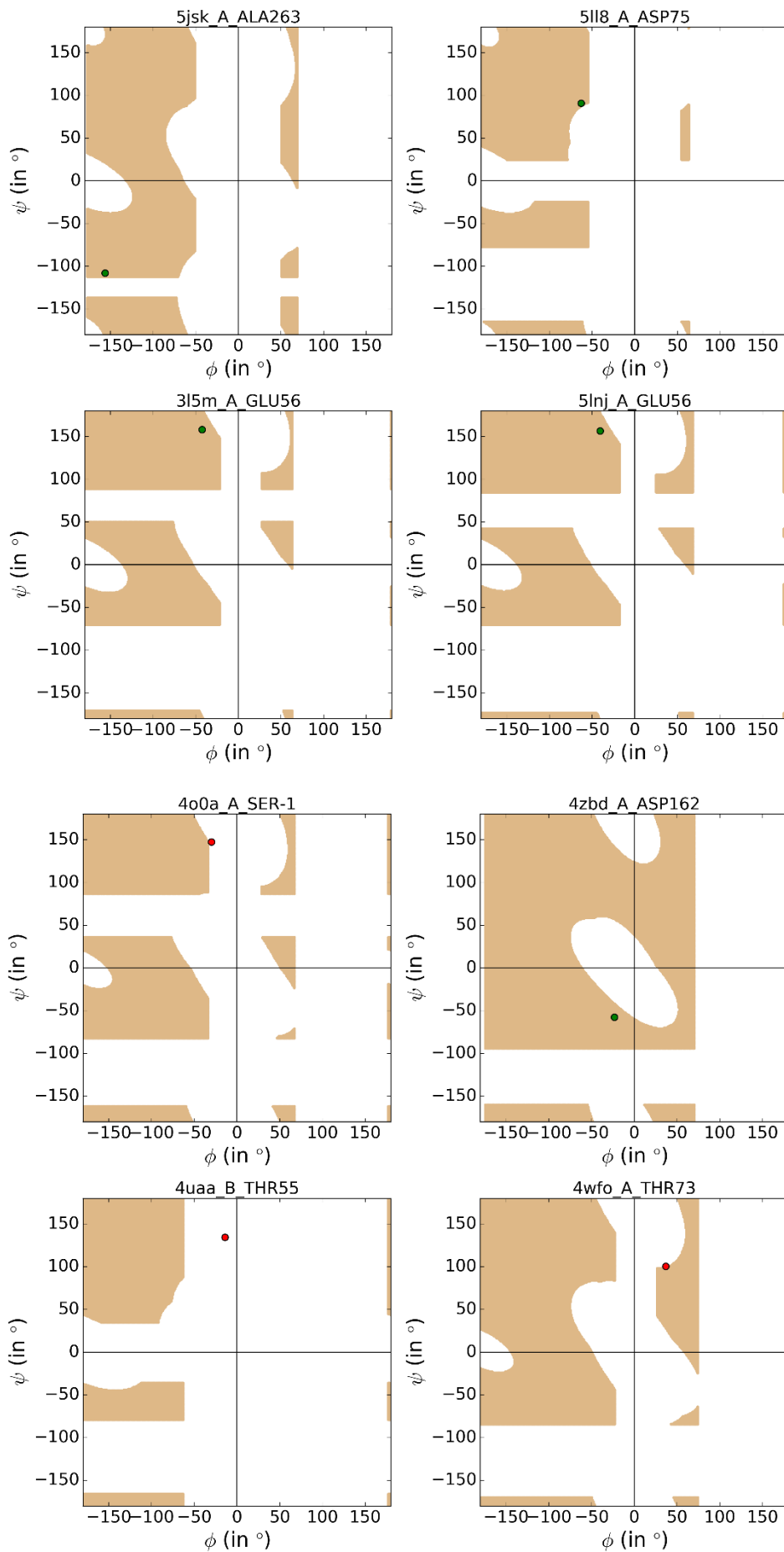
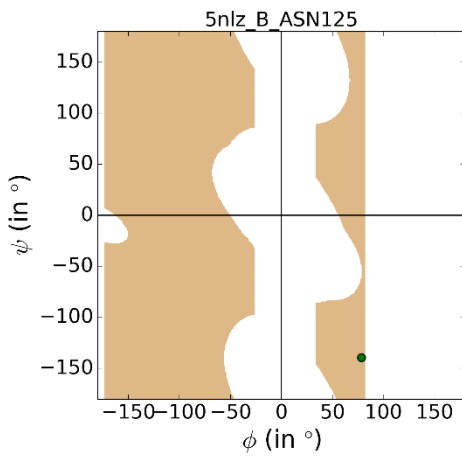
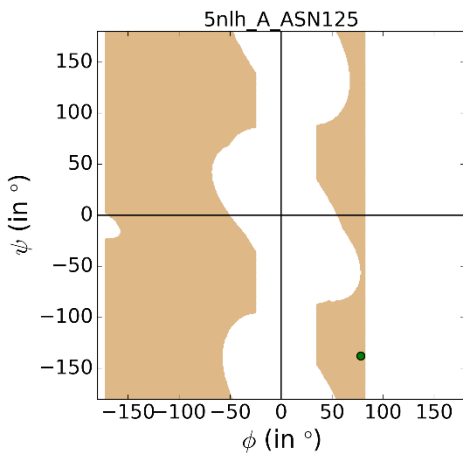
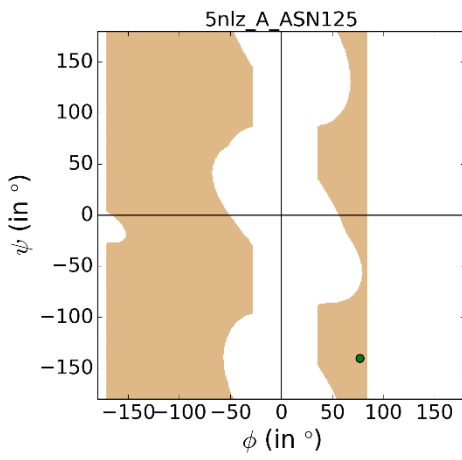
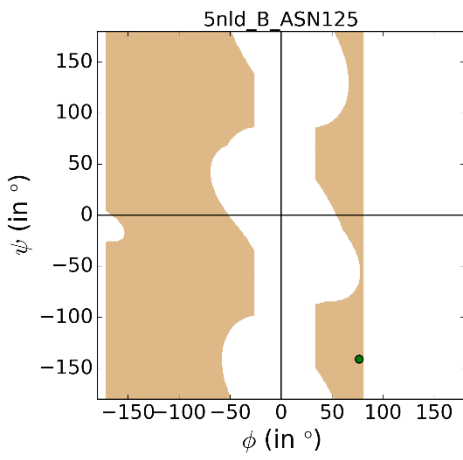
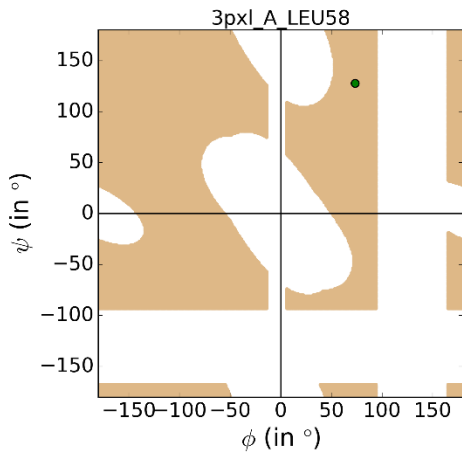
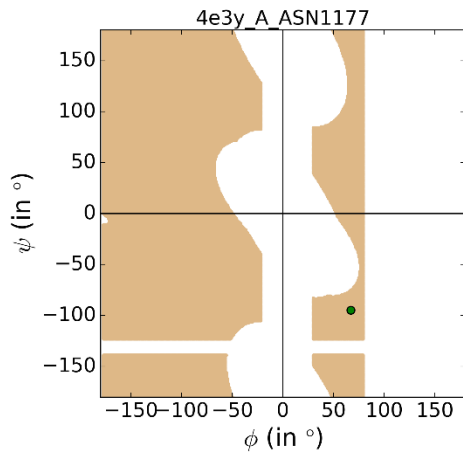
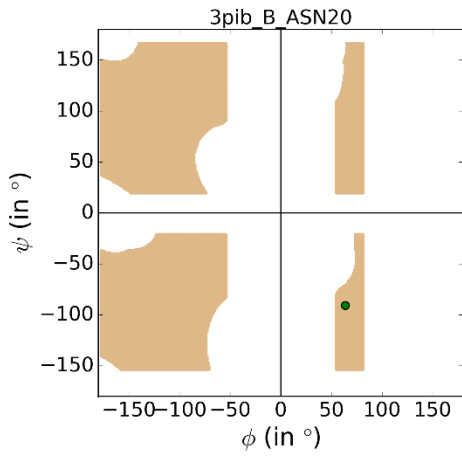
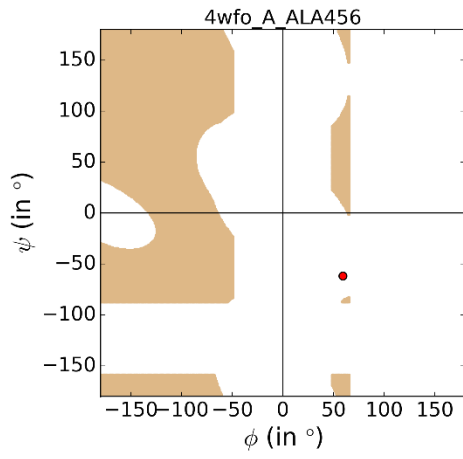
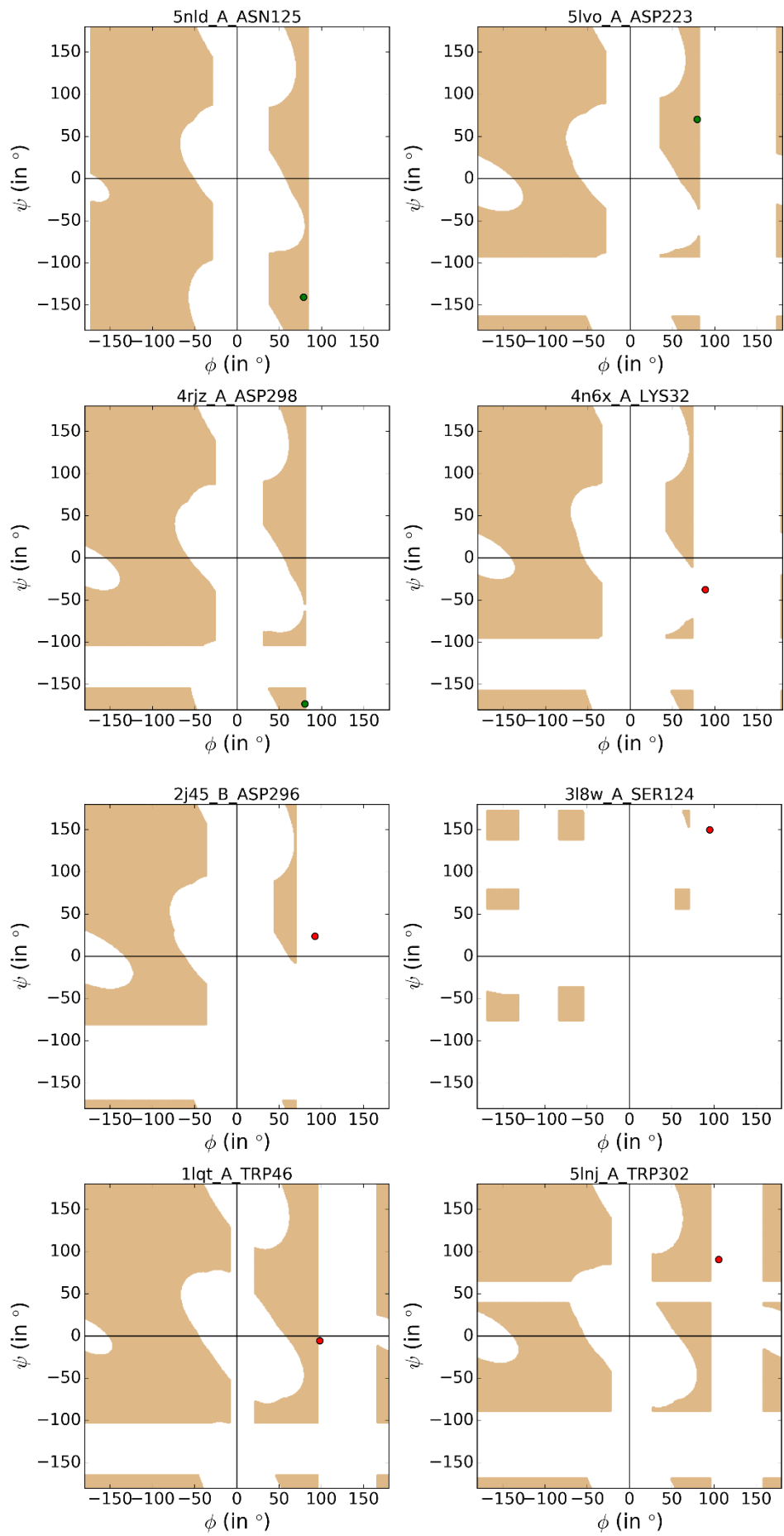


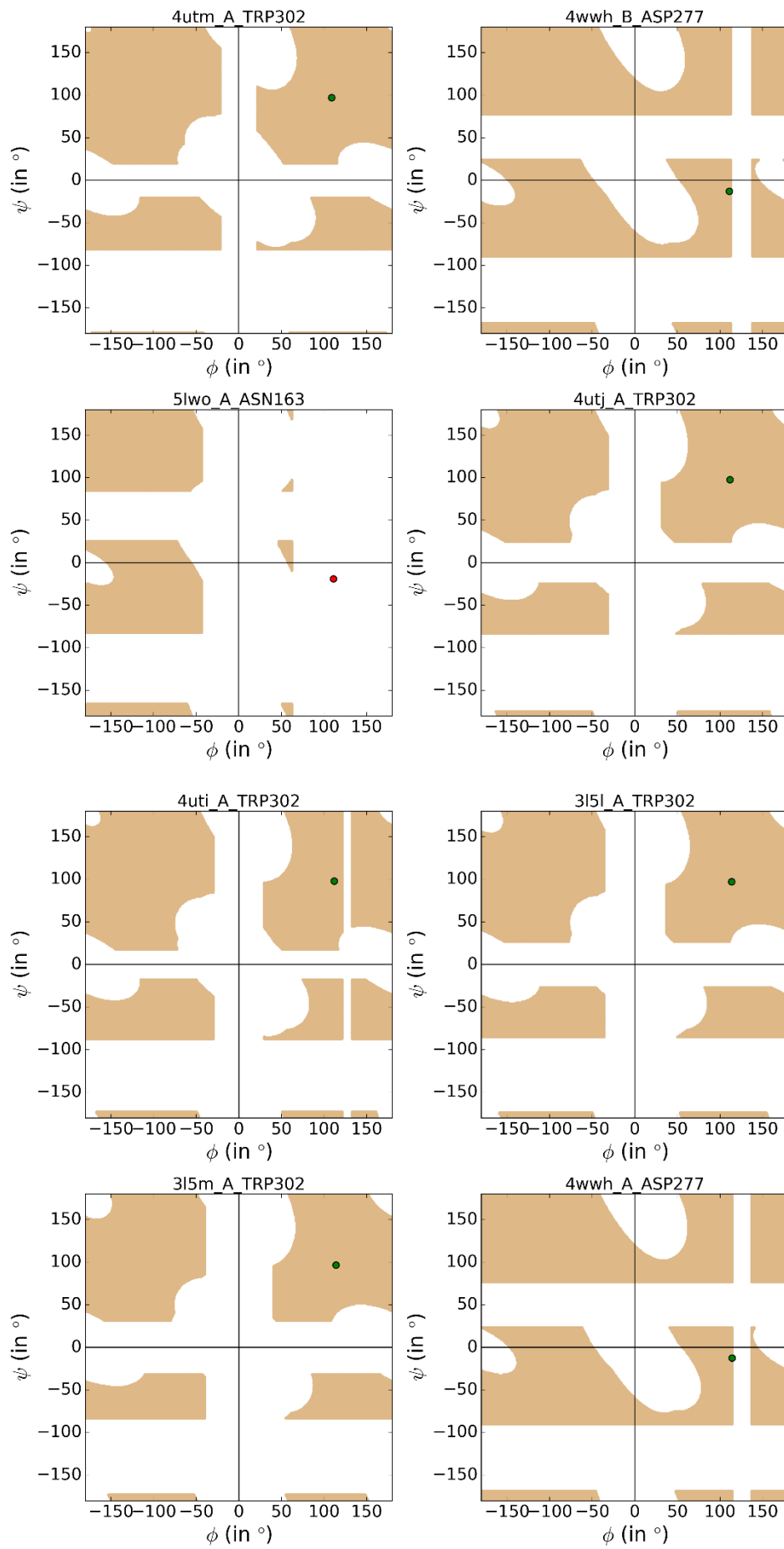
## Appendix 2

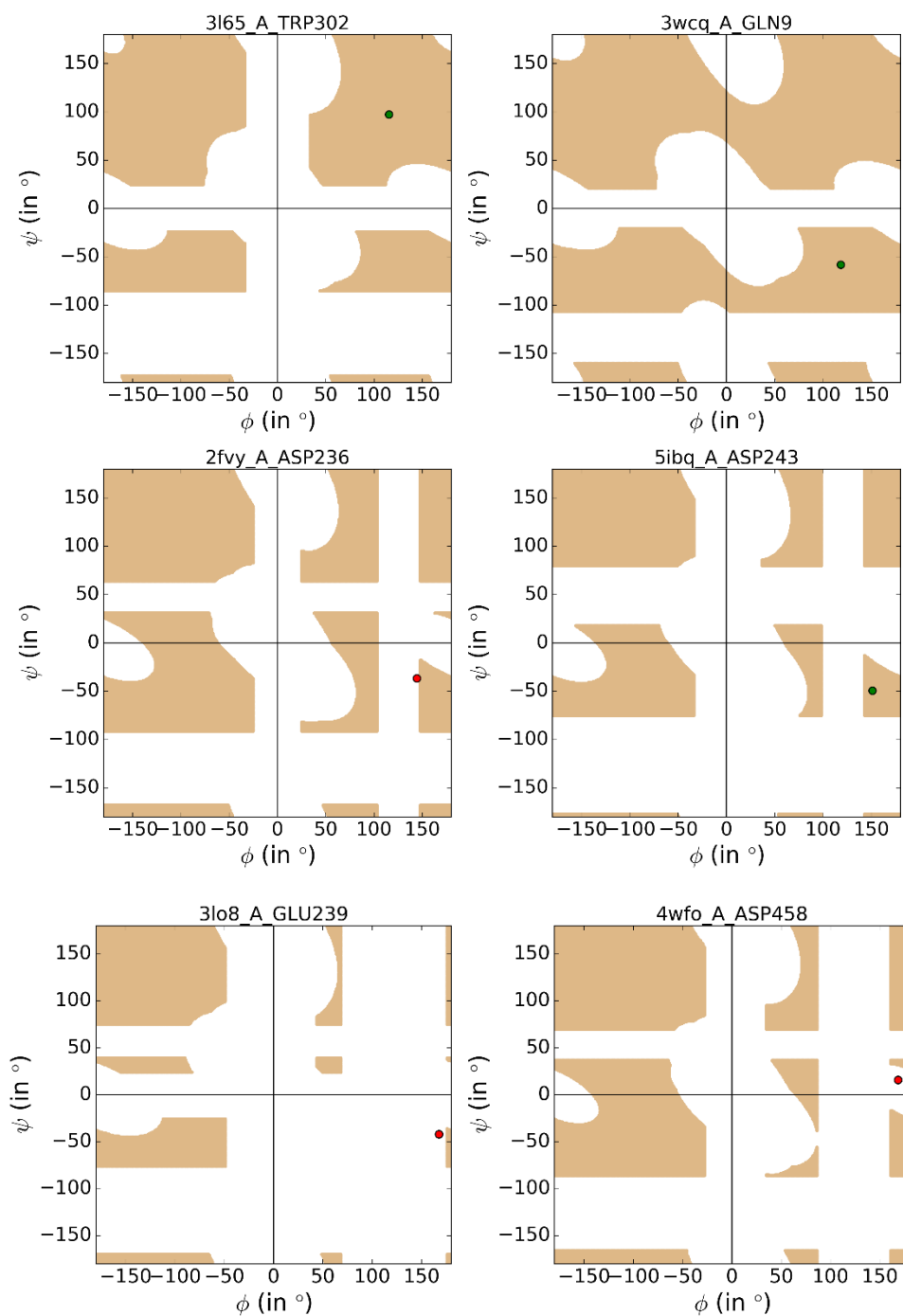












**Figure AF2.1** | Bond geometry-specific steric maps of 46 residues whose  $(\phi, \psi)$  values are outliers according to MolProbity

*If the  $(\phi, \psi)$  value of the residue is allowed according to its bond geometry-specific map, it is shown as a green point. Otherwise it is shown as a red point. 28 out the 46 MolProbity outliers fall in steric clash-free regions of their bond geometry-specific maps. The PDB code, chain identifier, residue name and residue number of each steric map is given above the map.*