**C# todo list**

* Continuum optimisation-based refinement in both Cartesian and **Polar coordinates**
* PRIME3D local refinement mode (dynamic continuous sampling around previous orientations using polar coordinates and the same weighting scheme as previously deployed)
* Outer product trick for Cartesian/Polar central section extraction and Cartesian 3D reconstruction + performance tests that are stringent enough that they can be described in a paper (Paper idea: Matrix theory for Fourier-based interpolation and rotational matching)
* Preparing method paper for Protein Science: Cryo-EM image processing: Improved single-particle *ab initio* 3D reconstruction with SIMPLE/PRIME
* Getting the masking routine in shape
* Help Marion interpret her SAGA maps. Refresh TAF/SAGA modelling.
* Think about and develop a down-scaling strategy for prime2D/3D (inspired by cryo sparc?) (magic numbers)
* Approach for coarse orientation search in initial stage (say 200 projection directions). These can be searched at low-res (say 20-30 A) and the most promising hits will be subjected to fine-grained search. All improving solution candidates will be assigned weights after search is done.