

Example priorities for AION-1

- Act as demonstrators for improving future performance of AION-10, 100, 1000 and synergy with MAGIS, form network and community within UK
 - Good to investigate ways the community want to be involved
- Technology priorities:
 - Atom sources:
 - High flux sources
 - Atom selection (experimental investigation of Yb and Sr and good candidates) for long baseline systems
 - Cooling and focusing techniques (such as delta-kick, evaporation schemes)
 - Cloud manipulation schemes, such as conveyors, atom launch
 - Atom interferometry:
 - Large momentum transfer (such as single photon schemes)
 - Beam geometries (wave front quality, beam shaping)
 - High fidelity pulses (such as composite pulses)
 - Detection schemes (such as squeezing and non-demolition)
 - Investigate schemes for suppressing GGN or other systematics

