MANTID @ ILL by December 2017

Goals:

- Use as standard data reduction tool in 9-10 instruments
 TOF (IN4, IN5, IN6), BS (IN16B), REF(D17, Figaro), DIF (D20, D1B+D2B+D4?)
- Workflow / interface SANS (D11, D22, D33)
- Solution for scanning instruments (D2B, D4, D16, D7) defined
- Organise training for ILL scientists and users

Challenges:

- Mantid constraints (project size, dependence on work done at other facilities e.g. Instrument 2.0, multiple revision cycles, ...)
- No immediate need and no clear perception of advantages
- Expectations that Mantid should replace old soft even to treat old data

MANTID January-April 2017

- Cycle 2017-1 (19 Jan 8 Mar)
 - Use/feedback from IN16B (GV+MG)
 - Use/feedback from IN4 (AS+MG)
 - Mid-Feb (?) → Use/feedback from IN5B/IN6
- PMC meeting (13 March) Note change of date!

 Scientific Council 6-7 April
 - (Good) news from use 'in vivo'
 - Prototype interface for TOF & BS (AS+GV)
 - Reflectometry:
 - Able to treat D17 data (at least script) (VR)
 - Interface (ISIS one adapted? Or think what is needed) (VR)
 - Plan to treat polarized data (VR + T. Saerbeck)
 - Powder Difraction:
 - Loader D20 / D1B (NeXuS meeting end January, if not use ASCII?) (GV)
 - Scanning instruments / Instrument 2.0:
 - Status and planning (IB)
 - Schedule for D2B, D4, D16, D7 (IB)

SINE 2020 – WP 10 (Data Treatment Software)

Tasks:

- 10.1 Dissemination and management (ESS)
- 10.2 Guidelines and standards (STFC, ILL as observer)
 - To enable different software to be interoperable
 - Based on work in the Mantid project + previous projects
- 10.3 Converging on Mantid for continuous sources (ILL, partners FZJ and PSI)
- 10.4 Interoperable data treatment software
 - Phase I
 - SANS → SasView (ESS)
 - Reflectometry → BornAgain (FZJ)
 - Imaging → MuhRec & KipTool (PSI + CEA, ISIS, ESS)
 - Phase II
 - QENS → Mantid (ISIS + ILL, FZJ)
 - More user-friendly interfaces
 - Extension of model fitting functions
 - Atomistic modelling → MDANSE / ASE & DFT (ILL + ESS, ISIS, PSI, Parma)
 - Extension to convert LD (and MC?) to scattering curves
 - Muon spectroscopy





Meetings / workshops & related work

- SINE 2020 WP10 workshop II @ ILL (24-25 April)
 - Present progress & status of Mantid at ILL
 - Meet with FZJ and PSI partners
 - Plan next work on QENS & atomistic modelling (likely to be done in Mantid or keeping strong contacts with Mantid)
 - (Hopefully) recruit someone to work during two years in these tasks.
 - Training and inclusion in working team
- Mantid workshop (14th 16th June)
 - Mantid V4 (Developers: ISIS 2, SNS 2, ESS 1, ILL 1/n)
 - Instrument 2.0

MANTID May-December 2017

Cycles 2017-2 (1 Sep – 18 Oct) + 2017-3 (3 Nov – 21 Dec)

- Refine TOF & BS (AS + GV)
- Reflectivity: Deploy / test in D17 and Figaro (VR → AS)
- Powder diffraction: Deploy / test in D20 and D1B (GV)
- Scanning instruments: Loaders D2B, D4, D16, D7 (IB)
 - Workflow D4 (liquids & amorphous)
 - Workflow D7 (full polarization analysis)
 - Cases D16 (D4-like, SANS, REF)
- SANS: Loaders D11, D22, D33 (?)
 - SANS workflow
 - SANS interface
 - D33 case (5 detector panels, monochromatic + TOF mode)

Next spring meetings

Current status of corresponding technique and establish list of objectives for next technique meeting

Monday 30 January Status backscattering (Gagik + Tilo)

Monday 6 February Status TOF and discussion/plans for interface (Antti+ Bjorn)

Monday 13 February Progress with reflectometry (Verena + Thomas S.)

Weeks 8/9* Diffraction / scanning instruments (Ian, Gagik, Gabriel, Thomas H.)

Monday 6 March Summary and preparation for PMC meeting

Monday 13 March PMC meeting

Weeks 12/13/14/15 Cycle BS / TOF / REF/ DIF

* 20-21 Feb Meeting at Copenhagen to discuss use of ASE for Task 10.4 in SINE2020-WP10 20 Feb – 6 March School holidays