Muon JRA (WP 17)
and
Muon Outreach (WP 2)
Update

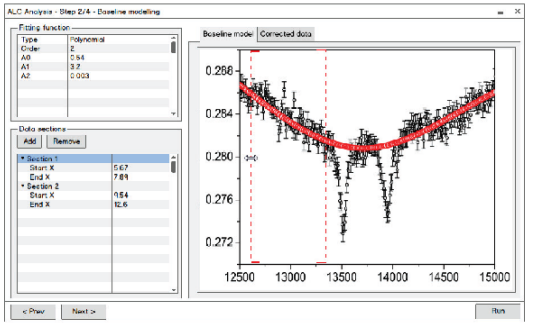
Muon JRA

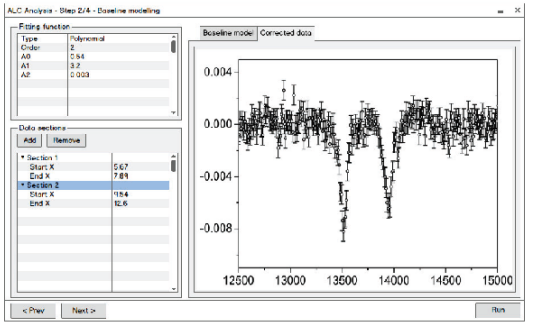
Task 17.2: Software development for data analysis

Good progress made with this task …

- Document specifying routines for efficient analysis of high field experiments complete (D17.1)
- Document discussing the potential for integrating simulation with analysis software complete (D17.3)
- Work to develop examples started – due M36 (D17.2) and M48 (D17.4)

  Analysis of ALC data and integration of the Quantum simulation code being worked on





Task 17.3: Concept studies for future muon sources

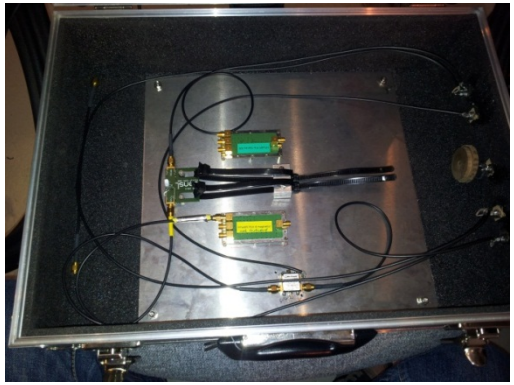
Falls into second half of JRA, but preliminary work started …

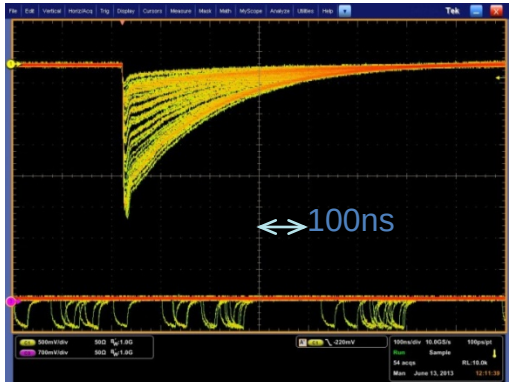
- Elvezio Morenzoni (PSI) will lead an area of work looking at muon micro-beams
- Bob Cywinski (Huddersfield) and ISIS will focus on muon target technologies and consider options for future high intensity muon sources

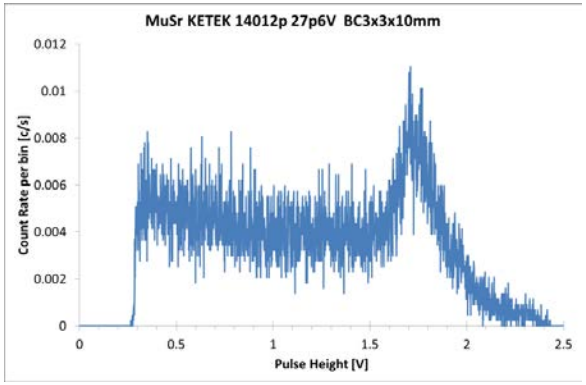
Task 17.4: Detector technologies for Pulsed Muon Sources

Good progress made with this task …

- Design document for APD test system complete (D17.8)
  System assembled and being used for on-beam evaluation
- Design document for prototype array (D17.8, part 2) anticipated M24
  Evaluation of array (D17.9) after the ISIS long shutdown (M36 onwards)

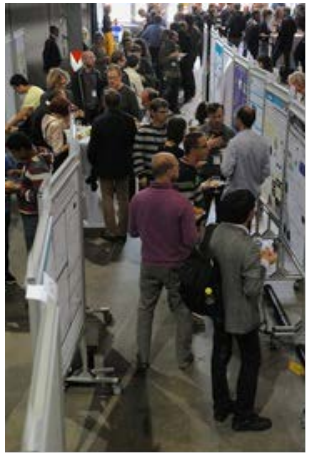


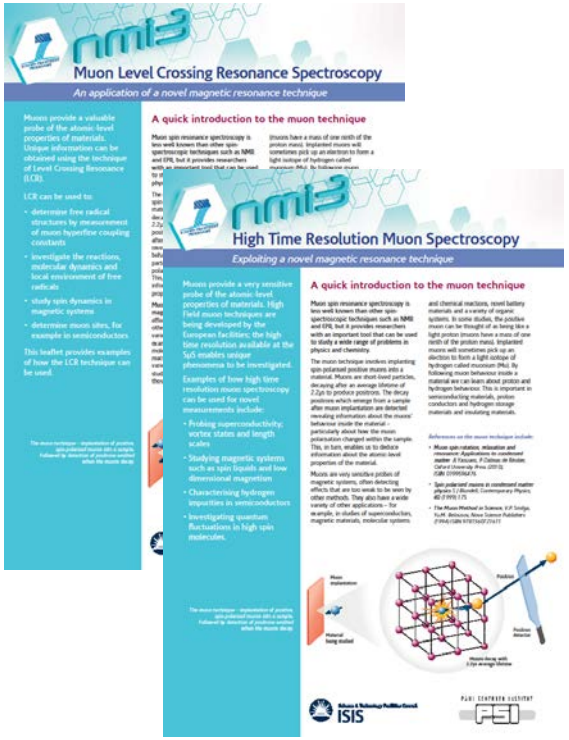




Outreach: Developing the Muon User Community

- High field developments reported on the web (D2.13)
- Leaflets describing high field applications produced (D2.14)
- Workshop on Function Materials held at PSI (part of JUM@P ‘13) (D2.15)
- Workshop on Soft Matter and ISIS User Meeting planned for 2015 (D20.16)





Developing muonsources.org …

- Website up and running
- ‘Snag list’ to address
- Feedback from the μSR community (Facilities)
- Role of the ISMS?
- Go Live!

Future activities …

- Next JRA meeting is planned to coincide with the 13th International μSR Conference (June 2014)
- Conference gives us the opportunity to publicise JRA work
- Outreach workshop on Soft Matter planned early 2015
- Continue to report JRA and Outreach activities and deliverables using the NMI3 website