Anything to NeXus converter, JRA

Leading beneficiary:

Partners: PSI

Estimated budget (in person months, other direct cost) and tentative distribution per partner

24PM, 15K for travel and communication

Abstract of your innovative activity:

Currently most european neutron scattering facilities use a plethora a home grown data formats. Often these formats are badly documented. In the form of NeXus there exists a standard for storing data which is slowly being implemented at many facilities.

Within this project all these data formats would be researched together with any other instrument specific data required to perform standard data analysis. From this data a software tool will be developed which converts the old data formats into a well documented NeXus file.

Users would benefit from this effort as they can choose to deal with NeXus files only in future. This effort also links with development of the Mantid data reduction and analysis framework as Mantid already has an algorithm to read all sorts of NeXus files. Another link exists with efforts towards data curation and open access. Such tools could use the resulting NeXus files as a standard means for long term data storage and as basis for tools.