

Data management for the SoLid experiment

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The SoLid experiment is a short-baseline neutrino project located at the BR2 research reactor in Mol, Belgium. It started data taking in November 2017. Data management, including long term storage will be handled in close collaboration by VUB Brussels, Imperial College London and Rutherford Appleton Laboratory (RAL). The data management system makes the data available for analysis on the Grid and interactively via xrootd at VUB Brussels and Imperial College, and archives them at RAL for safe keeping. As an additional requirement, as the SoLid experiment uses the GridPP DIRAC instance as a resource broker and file catalogue, this also has to be integrated into the data management system.

In this presentation we discuss the overall setup of SoLid data management model with an emphasis on the software developed for the file distribution on the Grid, the data archiving and the initial data transfer from the experiment to a Grid storage. We present results from the first six months of data taking, showing how the system performed in a production setting. Finally we discuss how the software developed can be useful to other communities.

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