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SoLid construction and calibration poster

The SoLid experiment aims to resolve the reactor anti neutrino anomaly by searching for short baseline neutrino oscillations. The experiment makes use of a novel detector technology based on the combination of $5\text{cm}\times 5\text{cm}\times 5\text{cm}$ PVT cubes and $6\text{LiF}:\text{ZnS}$ screens. This technology provides an improvement for the background rejection capabilities, the neutron identification and the localization of the inverse beta decay compared to the standard liquid scintillators + Gd detectors.

This poster discusses the construction and commissioning of the first module installed at the BR2 research reactor in SCK-CEN, Mol, Belgium. Radioactive sources are used to study the light attenuation and to calibrate the energy response of the detector as well as to control its uniformity and stability.

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