



## Poster session 1 - Monday 4 July

### P1.066 The SuperNEMO light injection and monitoring system

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*on behalf of NEMO-3/SuperNEMO collaborations*

SuperNEMO is the successor of the NEMO-3 experiment and will search for the hypothetical process of  $0\nu\beta\beta$  by combining tracking and calorimetric measurements. The SuperNEMO calorimeter consists of 712 optical modules made of scintillator blocks directly coupled to photomultiplier tubes.  $^{207}\text{Bi}$  sources will be used to calibrate the energy scale of the calorimeter in dedicated calibration runs separated by a few weeks. In between these runs, a Light Injection (LI) system will guarantee the stability of the calorimetric response to 1%. The LI system injects pulsed LED light into each scintillator block via optical fibres. A reference optical module is used to monitor the light level against a  $^{241}\text{Am}$  source. This poster will describe in detail the LI system and its performance.