



## Poster session 1 - Monday 4 July

**P1.073 Pulse shape analysis techniques in liquid scintillator for the identification and suppression of radioactive backgrounds to neutrinoless double beta decay**

J Dunger

University of Oxford, UK

*on behalf of SNO+ collaboration*

Analysis techniques using the timing and topology of PMT hits in SNO+ have been developed to notably improve the suppression of external backgrounds as well as to statistically separate candidate neutrinoless double beta decay events from a number of radioactive backgrounds, such as might be produced by cosmogenic activation. Details of these techniques will be described and implications for current and future SNO+ phases will be discussed.