

Contribution ID: 53

Type: **Pilot Project Poster**

## Investigation of neutron and gamma sensitivity in Gadolinium- doped plastic scintillator

*Monday, 15 April 2019 18:15 (15 minutes)*

The detection and discrimination properties of two different plastic scintillator detectors were investigated, namely one constructed from standard plastic scintillator and another of the same scintillator doped with Gadolinium. The response of these detectors to exposure to neutrons and gammas from  $^{137}\text{Cs}$  and  $^{252}\text{Cf}$  sources is assessed.

**Primary authors:** CIMADOM, Diego (University of Sheffield); THOMPSON, Lee (University of Sheffield); FARGHER, Sam (University of Sheffield); DEAKIN, Tom (LabLogic Systems)

**Presenter:** CIMADOM, Diego (University of Sheffield)

**Session Classification:** Session 4: Poster session and drinks reception

**Track Classification:** Detector Materials