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Scintillation properties of $\text{Bi}_4\text{Ge}_3\text{O}_{12}$ (BGO) down to a temperature of 20mK

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In the framework of rare events detection, especially for the Eureka collaboration, investigations are made to improve the sensibility of the dedicated detectors. In this way, the scintillation properties of the BGO crystal were studied at Oxford (Department of Physics) down to 6K. The light response and the decay time of the BGO crystal are measured as a function of the temperature using a multi-photon counting technique. To complete this work, the time profile of the scintillation pulse obtained at 6K is compared with the one deduced from BGO data obtained previously at 20mK at Orsay (Institut d'Astrophysique Spatiale).

Auteur: M. GIRONNET, Johann (Institut d'Astrophysique Spatiale / Paul Scherrer Institut)

Co-auteurs: Prof. KRAUS, Hans (Department of Physics, Oxford); Dr CORON, Noël (Institut d'Astrophysique Spatiale, Orsay); Dr DE MARCILLAC, Pierre (Institut d'Astrophysique Spatiale, Orsay); Dr MIKHAILIK, Vitalii (Department of Physics, Oxford)

Orateur: M. GIRONNET, Johann (Institut d'Astrophysique Spatiale / Paul Scherrer Institut)