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Simulations of hard X ray and gamma ray response in CsI(Tl) scintillator detector

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Abstract content

Results of the computations of the response of the scintillator detector to high energy photons using the code GEANT-3 is presented. The dependence of efficiency on energy is obtained for a given geometry of the detector and for different angular distributions of incident flux. The expectations of the response in wide energy channels for various primary energy spectra is obtained. The estimates of the efficiency of the SONG instrument on CORONAS-F satellite are discussed. This work was supported by the Slovak Research and Development Agency under the contract No. APVV-51-053805.

If this papers is presented for a collaboration, please specify the collaboration

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olive, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 1 (SH), pages 3-6

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