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A Geant4 based engineering tool for Fresnel lenses

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Abstract content

Geant4 is a Monte Carlo radiation transport toolkit of generalized application in areas such as high-energy physics, nuclear physics, astroparticle physics, or medical physics. Geant4 provides an optical physics process category, allowing the simulation of the production and propagation of light. Such capabilities are well tailored for the simulation of optics systems namely in cosmic-rays experiments based on the detection of the EAS Cherenkov and fluorescence light. The use of Geant4 as an engineering tool for the optics design and simulation of Fresnel-lens based detectors will be presented.

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'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 3 (OG part 2), pages 1333-1336

Primary author(s) : Dr. TOMÉ, Bernardo (LIP - Lisboa); Prof. PIMENTA, Mário (LIP - Lisboa); Dr. COSTA, João (LIP - Lisboa)

Presenter(s) : Dr. TOMÉ, Bernardo (LIP - Lisboa)

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