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Hybrid Photo Detector as the Ashra trigger sensor

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Abstract content

We have developed a hybrid photo-detector (HPD) for the Ashra detector. The HPD consists of a 6-inch electron tube and a multi-pixel silicon detector followed by trigger decision ASIC circuits. The advanced features of the silicon detector are as follows: 1. high resolution with 64×64 channels using bump bonding technique 2. high gain due to a thin dead layer and a large effective area 3. fast response due to electron collection. In this presentation, we will report the design and performance of the HPD.

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

Ashra

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 1571-1574

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