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Measurement of angular variation of cosmic ray flux with plastic scintillator

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We have fabricated several plastic scintillator paddle detectors to build a cosmic ray trigger set up required for our R&D with particle detectors. The plastic scintillator material and photomultiplier tube are commercially procured. All other components such as Perspex light guide, coupler of light guide are made in proper dimension at Bose Institute workshop. Two such modules are built initially and tested with cosmic rays and different radioactive sources. Using these detectors a preliminary study has been carried out to measure the angular variation of cosmic ray flux. To do this one detector is kept fixed in position and the position of the other one is changed and the coincidence count is measured. The details of the fabrication of the modules and the experimental result will be presented.

Presentation type

Poster

Authors: ROY, SHREYA (BOSE INSTITUTE); ADAK, Rama Prasad (Bose Institute); BISWAS, Rathijit (Bose Institute (IN)); Dr BISWAS, Saikat (Bose Institute, 93/1 APC Road, Kolkata, INDIA); DAS, Supriya (Bose Institute (IN)); Mr DAS, S; NAG, Dipanjan (Bose Institute); Mr PAUL, D; RUDRA, Sharmili

Presenters: ROY, SHREYA (BOSE INSTITUTE); ADAK, Rama Prasad (Bose Institute); BISWAS, Rathijit (Bose Institute (IN)); Dr BISWAS, Saikat (Bose Institute, 93/1 APC Road, Kolkata, INDIA); DAS, Supriya (Bose Institute (IN)); Mr DAS, S; NAG, Dipanjan (Bose Institute); Mr PAUL, D; RUDRA, Sharmili

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