

Study of simulated coincident events for COREA prototype system

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The COREA(COsmic ray Reaserch and Education Array) collaboration has installed a prototype array of plastic scintillation systems at Kyeonggibuk Science High School and Hansung Science High School to study cosmic ray events. In each site, three detector stations are installed, where each station cosists of four scintillation detectors. We report the progress of simulation study of plastic scintillator system and efficiency measurement as well as current progress of estimating the primary energy of the cosmic ray showers measured by our system. In particular, we use air shower simulation package COSMOS. we assess the possibility of measuring the primary cosmic ray energy and direction

Presenter: Mr KIM, Hongki (Yonsei U.)

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