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Mathematical model of dynamic detector system for detecting Cherenkov light from EAS

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Creating a new architecture of detection system for measurements of different characteristics in astrophysics and cosmic rays detection opens new era in science. Using the latest technologies related to multicopter cluster systems, alternative energy sources, cluster technologies, cloud computing and big data is efficient way to open new ways of research. Quick-deploy scalable dynamic system of controlled drones with a small set of different detectors for the detection of various components of extensive air showers (EAS) in cosmic rays is very attractive. We present a mathematical model for such dynamic system for N - dedrons (detecting drones) for detecting Cherenkov light from EAS and fluorescent light.

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