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## time three dimension radiation imaging Compton camera for radiation safety of base of operations

Base of operations (BOO), as the accommodation and working base of an inspection team, would be a very important facility for an OSI mission. As the OSI would be based on the heavy culture of nuclear, the radiation safety of BOO has its special significance. In the practical case, continued monitoring of the radiation level and the identification of the radioactive sources at BOO, would have significant operation value. This work would propose a real time three-dimensional radiation imaging Compton camera. The camera could work at room temperature. It has high detection efficiency and high energy resolution. It could not only provide real time energy spectrum of radioactive isotope and identification, most importantly, it could also provide the real time distribution of radioactive materials in the environment. Deployed at several locations of the BOO, they could protect inspectors from radioactive contamination at their office and home. Deployed in the decontamination area, it would ensure the decontamination effect. The real time three-dimension radiation imaging Compton camera would safeguard the nuclear radiation free BOO.

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