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Particle detection technology for space-borne astroparticle experiments

Friday, June 6, 2014 9:00 AM (30 minutes)

I will review the transfer of technology from accelerator-based particle detection to space-borne astroparticle physics. Requirements for detection, identification and measurement of ions, electrons and photons in space will be recalled. The additional requirements and restrictions imposed by the launch process in manned and unmanned space flight, as well as by the hostile environment in orbit are analyzed in detail. Technology readiness criteria and risk mitigation strategies are reviewed. Recent examples are given of missions and instruments in orbit, under construction and in the planning phase.

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