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Miniature Low Energy Electron Detector for Particle Environment Studies in Space

abstract: Low Energy Electron Detector LEED is a miniature particle monitor for measurements in space. It is based on the MYTHEN Si microstrip instrument made for the synchrotron X-ray detection at PSI. The space version will measure electrons with energies from few up to few hundred keV with energy resolution of few keV and at very high counting rates. The device will study particle acceleration and high energy plasma, monitor Space Weather and map the planetary Radiation Belts of the Earth and in future of the Jupiter.