



First results of neutral particle measurements

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The ASPERA-3 experiment on Mars Express consists of four sensors that measure in situ fluxes of ions, electrons and energetic neutral particles. We will present first results of the energy spectrum reconstruction of particle fluxes measured by the Neutral Particle Detector. We focus the analysis on measurements where hydrogen fluxes are recorded while the NPD field of view is directed away from Mars. Since there is no apparent planetary origin these unexplained neutral beams might carry information about the outer heliosphere, possibly allowing a look at the boundaries of the solar system.