AMS- γ : HIGH ENERGY PHOTONS DETECTION WITH THE ALPHA MAGNETIC SPECTROMETER ON THE ISS

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The AMS instrument is a large acceptance, superconducting Magnetic Spetrometer designed to study, with the highest accuracy, the composition of Cosmic Rays on Low Earth Orbit. We discuss how AMS will also identify gamma rays in the energy interval 0.5-100 GeV, operating as a e^+e^- pair spectrometer. During the scheduled three years mission on the ISS (2004-2007), AMS will have an unique opportunity to access the still unexplored gamma energy range 20-100 GeV and will give informations on the gamma rays flux which are complementary to other missions operating at lower energies (Integral, AGILE, XMM) or at higher energies (ground based Cerenkov detectors).