## THE AMS MICROSTRIP SILICON TRACKER.

Divic Rapin and AMS-Tracker Collaboration DPNC, Université de Genève, Switzerland. Divic.Rapin@physics.unige.ch

The Alpha Magnetic Spectrometer is designed for anti-matter and dark matter searches and for cosmic ray measurements in the GeV to TeV range. Its central part is a silicon tracker with 10  $\mu$ m spatial resolution and a dynamic range of 1 to 100 MIPS for dE/dx measurements. An operational period of 3 years is scheduled on the International Space Station (ISS) starting end of 2003. A precursor flight on a Space Shuttle occured in 1998 with a reduced silicon surface of 2 m<sup>2</sup>. The construction of the 7 m<sup>2</sup> second phase is in progress. We discuss the design, construction and performance of the detector.