



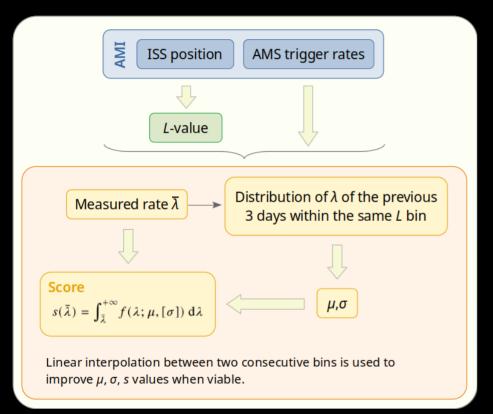
Real-time monitoring of Solar Energetic Particles with Alpha Magnetic Spectrometer on the International Space Station





## **Detection algorithm**



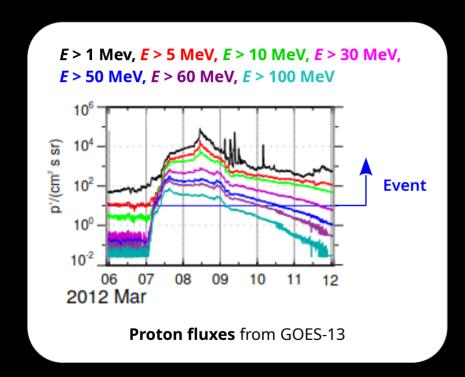


- The algorithm relies on AMS Monitoring Interface (AMI).
- McIlwain's L-parameter is used to separate data taken under different conditions.
- SEP events produce increments in AMS trigger rates, lowering the score towards 0.



## A SEP event





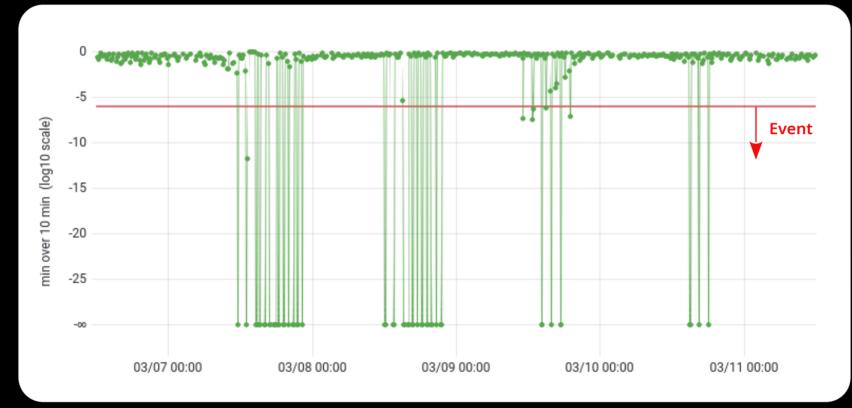
A **SEP event** took place at the beginning of **March 2012**:

- CME Halo /07 0036;
- flare *X5.7/3B*.



## A SEP event







## The poster



