

Abstract Submitted  
for the APR08 Meeting of  
The American Physical Society

**The Transition Radiation Detector of AMS 02** FENG ZHOU, MIT,  
AMS COLLABORATION — The Alpha Magnetic Spectrometer AMS02 is equipped  
with a large transition radiation detector (TRD) ready for particle identification.  
The positron/proton separation is essential for searching for the indirect Dark Matter  
signals in cosmic rays. Discrimination at  $10^2$  to  $10^3$  level between positron and  
proton with energy up to 300 GeV has been achieved. Readiness and maintenance  
free operation for more than three years in space, testing and current cosmic ray  
measurements will be discussed.

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Date submitted: 11 Jan 2008

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