



Contribution ID: 1145

Type: **Poster contribution**

Space qualification of the Silicon Tungsten Tracker of DAMPE

Thursday, July 30, 2015 3:30 PM (1 hour)

Silicon Tungsten Tracker (STK) is one of the key payloads of Dark Matter Particle Explorer (DAMPE), which is planned to be launched at the end of 2015. In order to verify the design of STK, an Engineering Qualification Model (EQM) of STK was developed in 2014 and qualified for several space environmental tests, including vibration test, shock test, thermal vacuum test, thermal balance test and thermal cycling test. All the test results demonstrate the high reliability and good performance of STK, which also trigger the following production of flight model (FM).

Registration number following "ICRC2015-I/"

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