

FIT: the scintillating fiber tracker of the HERD space mission

C. Perrina on behalf of the HERD Collaboration

Chiara.Perrina@epfl.ch





HERD





Performance of the FIT module



Thermal-vacuum test of a FIT module

FIT module in a vacuum cylinder inside a thermal chamber





- Vacuum cylinder (5 × 10⁻⁶ mbar)
- Chamber temperature set from -20 °C to 30 °C, with steps of 10 °C.
- Scintillators were placed on the top and the bottom of the chamber, to have cosmic triggers.

- The cluster length distribution is uniform and independent on the temperature.
- This is a sign of the mechanical stability.



