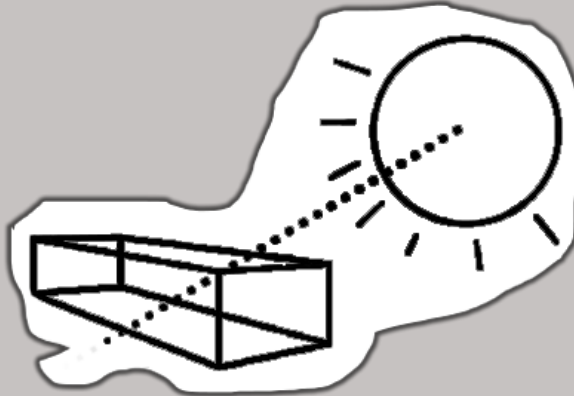# THE Port - Hackathon at CERN

Cheap, Distributed Cosmic Ray Detector

Summary:

Cosmic ray experiments are normally large, expensive and require specialist knowledge to use. We want to give everyone the opportunity to be a scientist with an affordable, collective cosmic ray detector.

Goals:

- Develop a detector and its suitable electronics for low cost devices.
- Design and implement a lightweight cosmic ray analysis framework for use on RaspberryPi
- Visualise and reconstruct a cosmic ray shower using one or more detectors
- Documentation and instructions on how to build and use the device; learn and detect cosmic rays!

Resources:

http://www.cosmicpi.org
http://www.hisparc.nl

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