

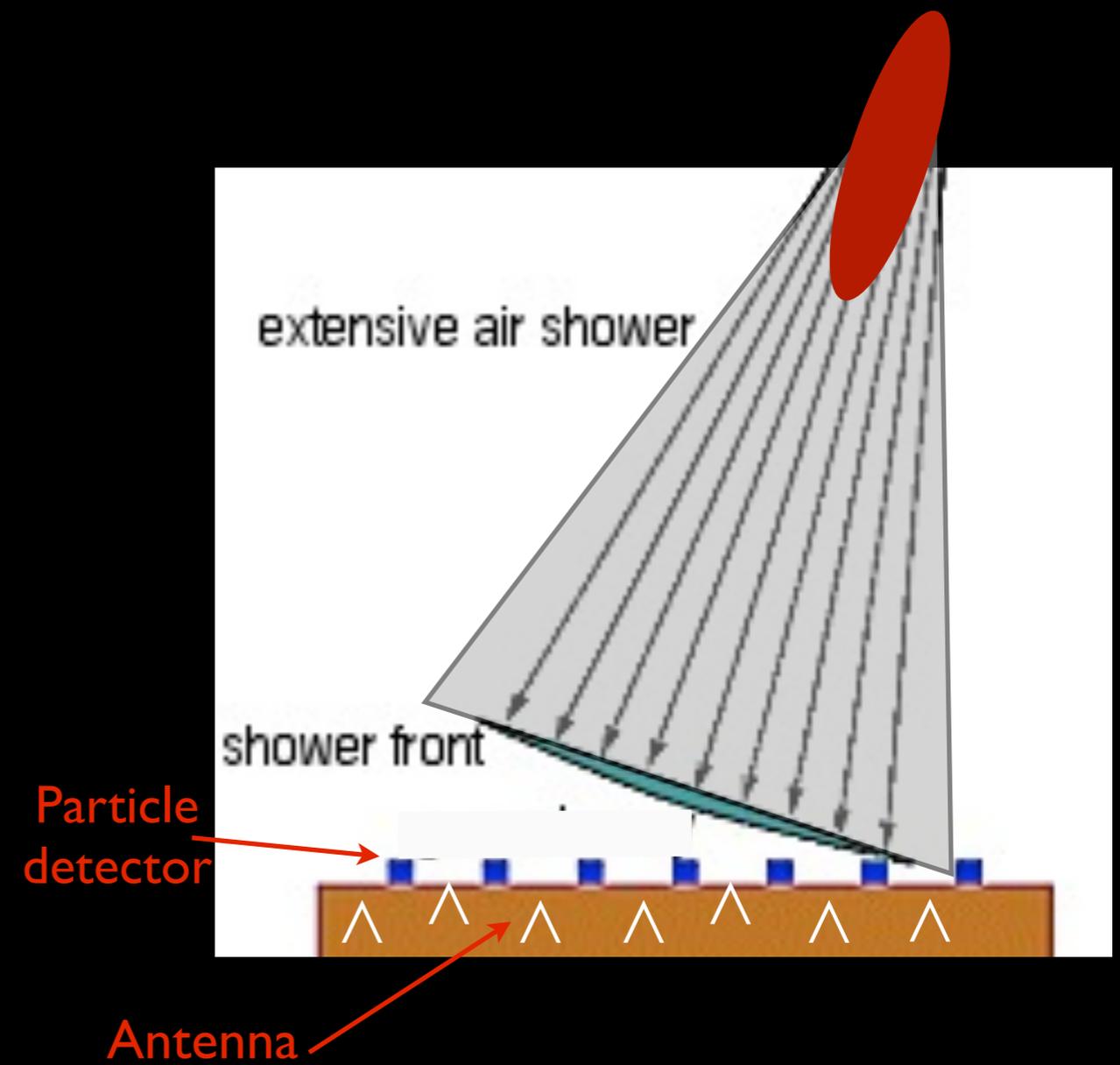
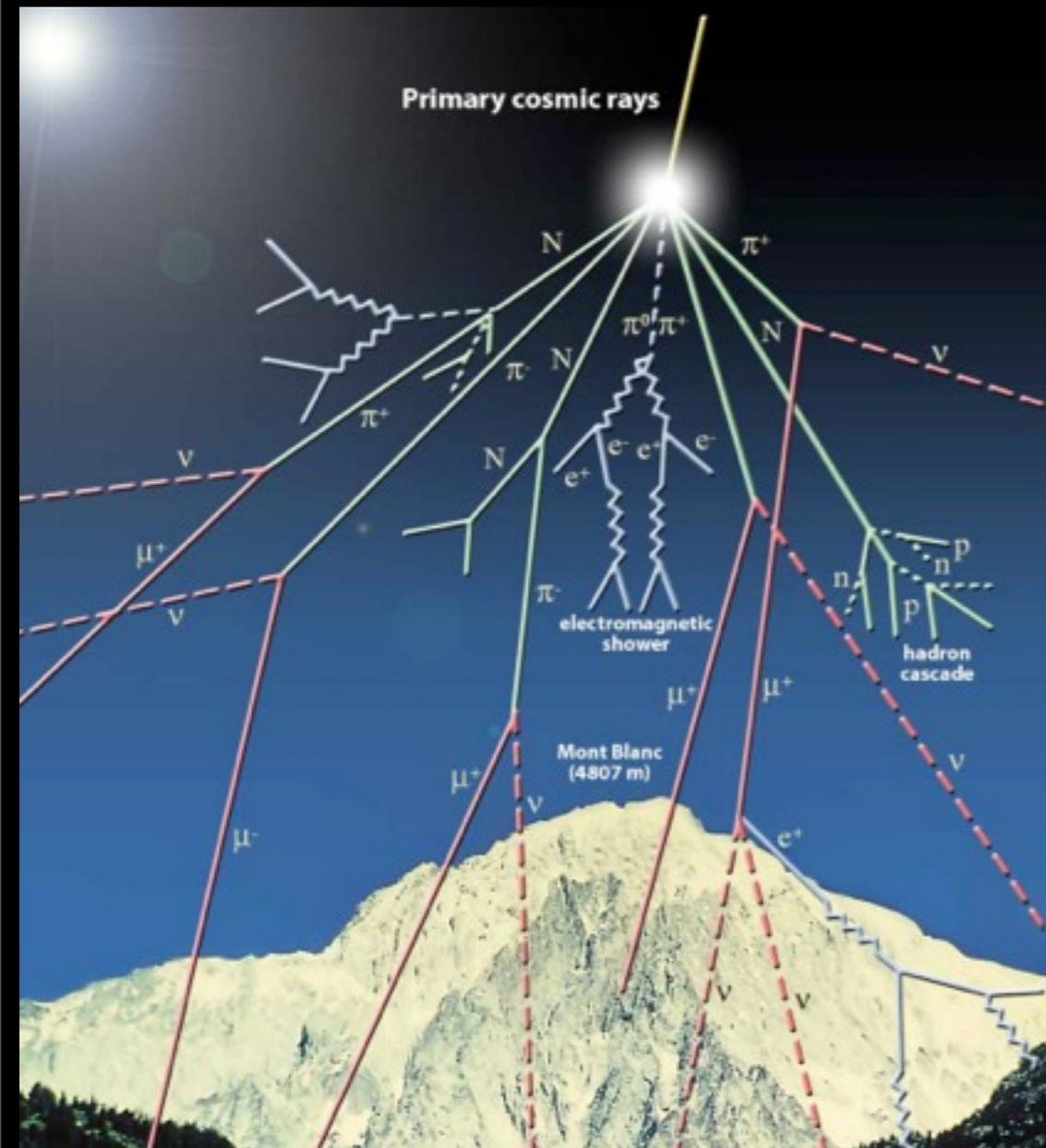


LORA

LOfar Radboud Air-shower array

Satyendra Thoudam
(LOFAR CR group)

Cosmic-ray air shower

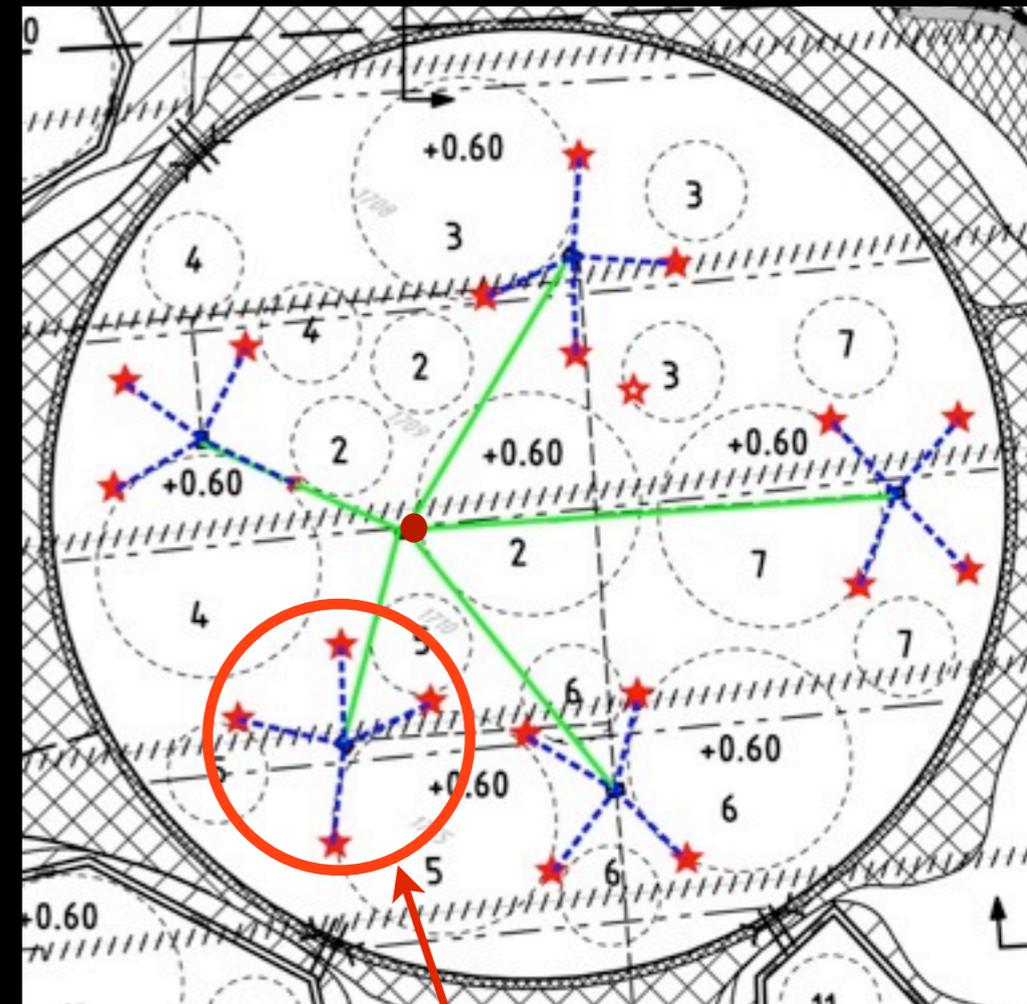


LORA

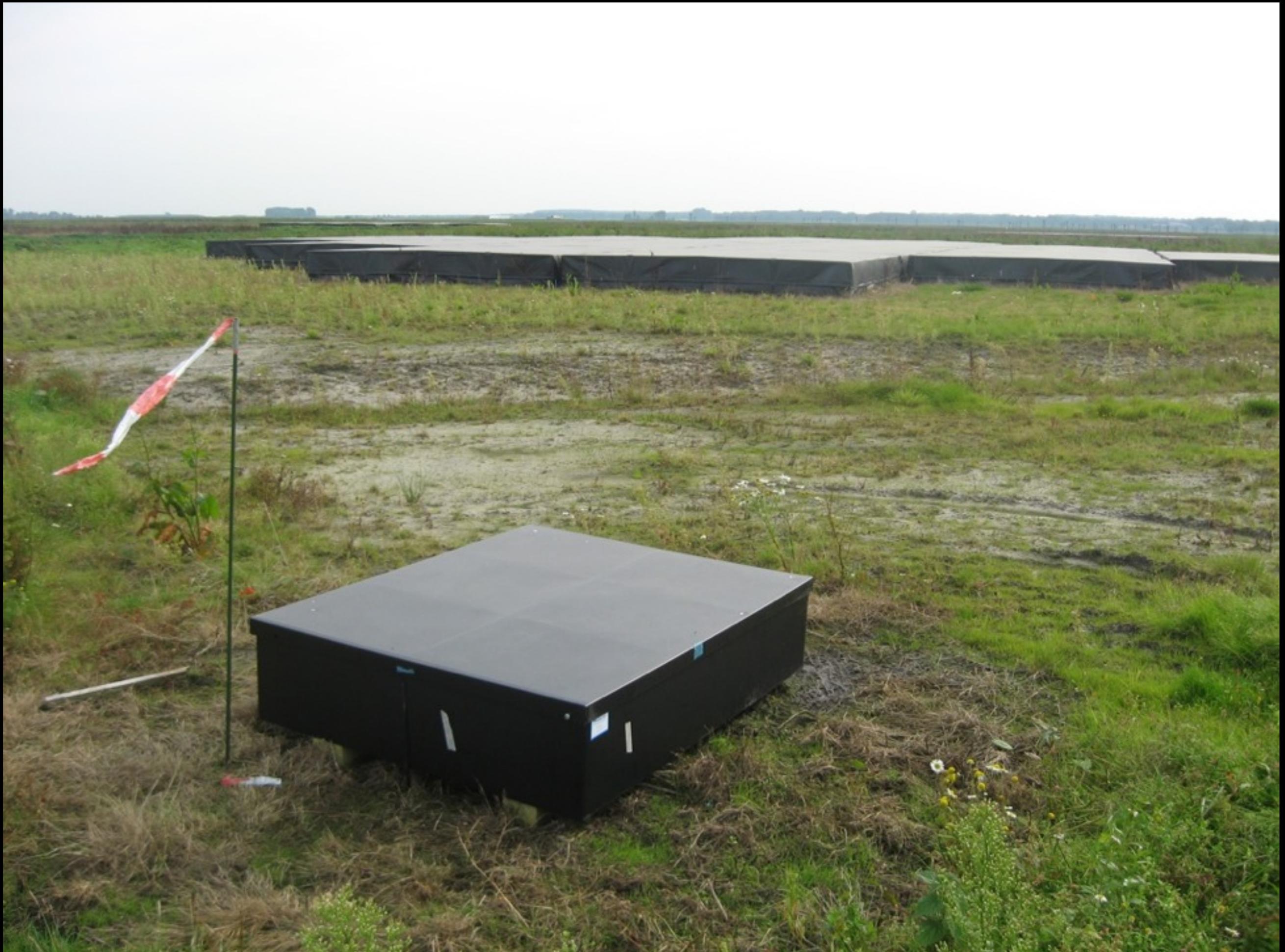
- To trigger & confirm radio detection of cosmic-rays
- To reconstruct air shower parameters

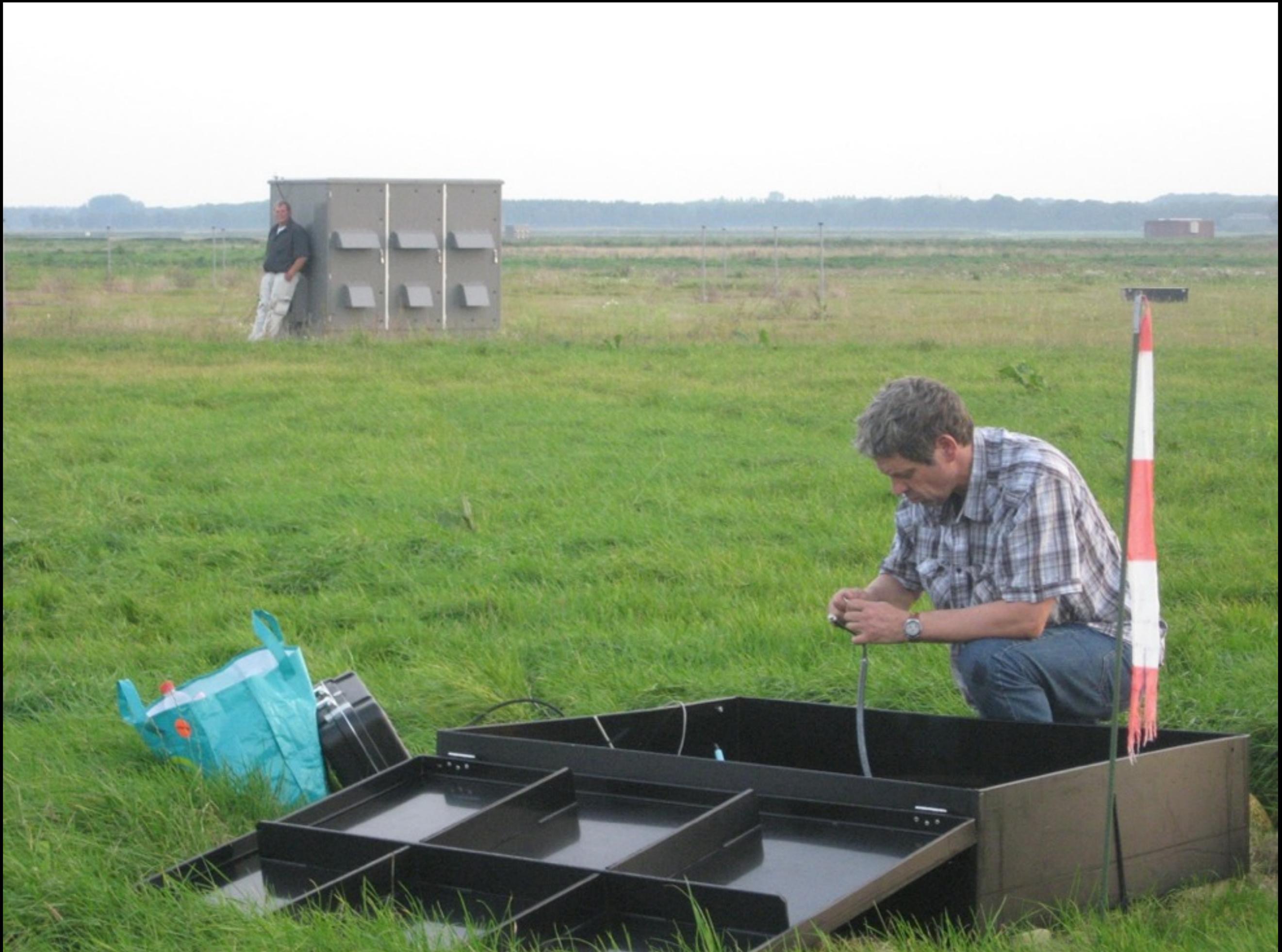
LORA details

- 5 stations with 4 detectors each
- Detectors are plastic scintillators from the KASCADE experiment
- Electronics were developed for the HISPARC experiment
- Each station is handled by a station computer
- Data processing is done by a central master computer



CS005





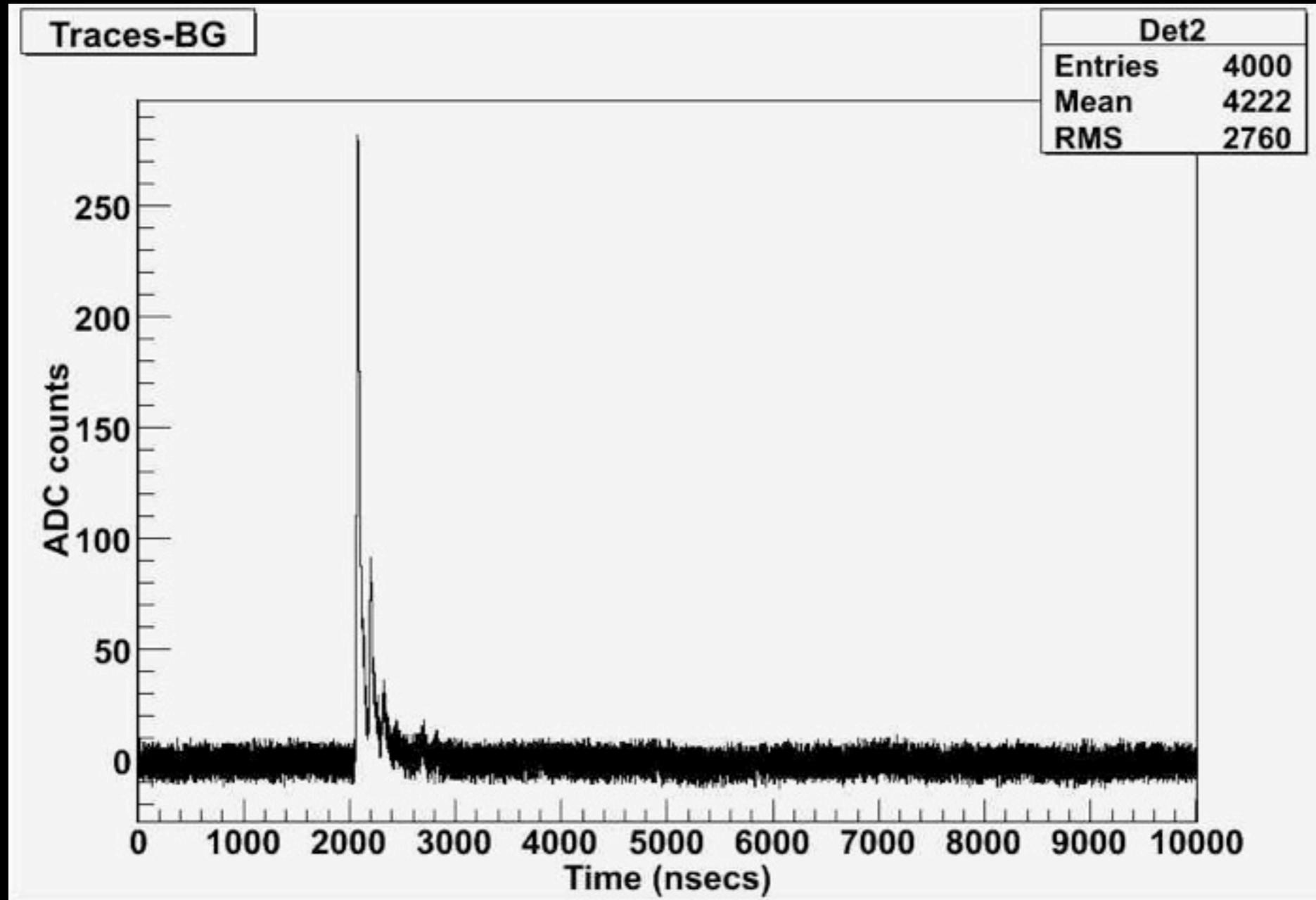


CS005

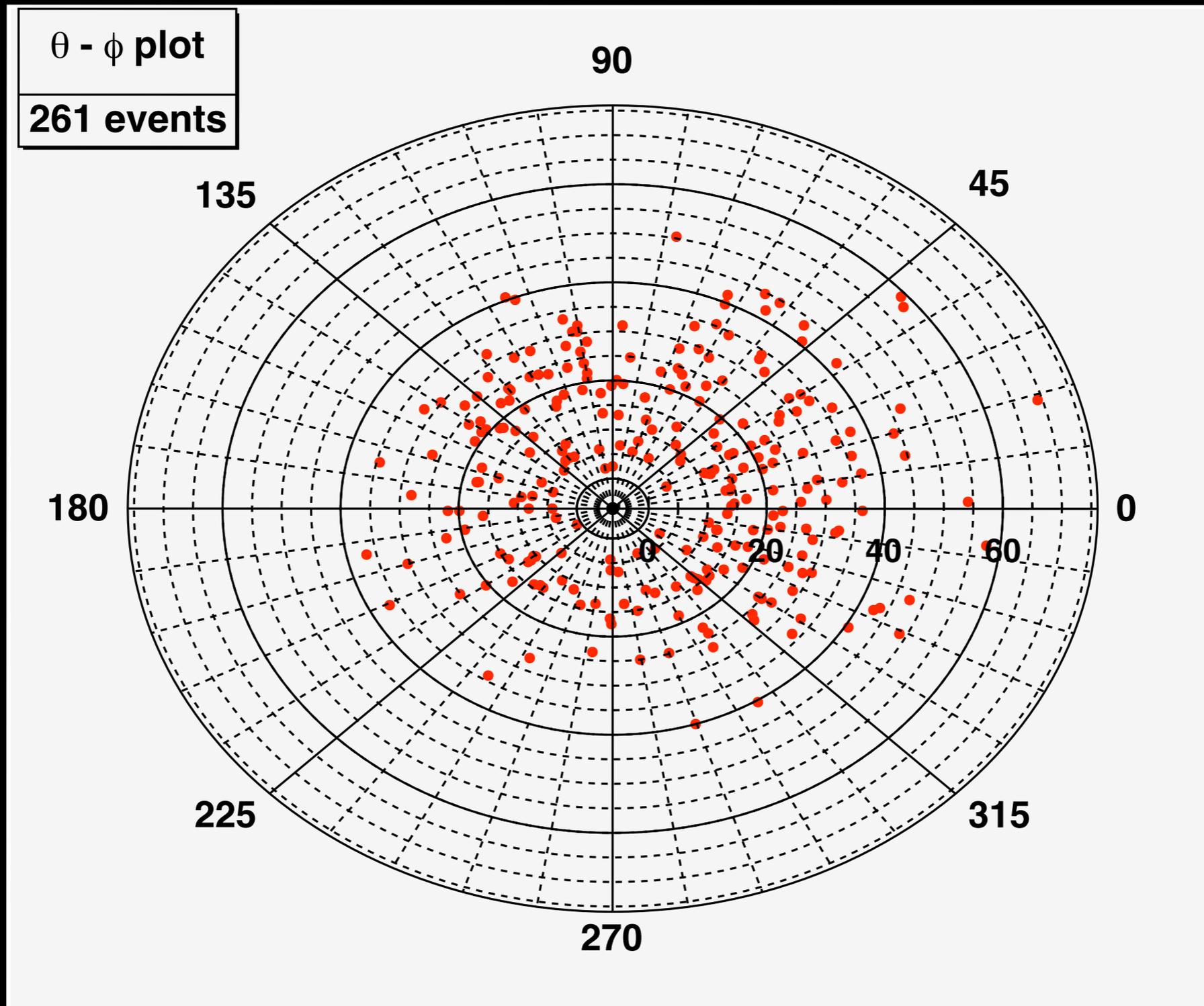




Test results



Test results



Current status & Future plans

- Electronics & DAQ software are tested
- 1st LORA station already installed
- Remaining stations: Hardware components & detectors are ready
- Hoping CR radio-particle detections by the end of 2010!

Lots of things to do

- Network connection
- Measuring *electrical* length of signal cables
- Measuring positions of the detectors
- Also lots of things for the data analysis software

Thank you !