

# Particle detector array

- High-tech muon/EM-array vs cheap trigger array
  - **millions vs tons** (if old KASCADE equipment is used)
  - **construction considerations** [ antenna coupling, size of detectors, underground detectors ]
  - **consequences for science?**
- Spacing & number of stations
  - LOFAR: 20 on superterp ( = 0.1 km<sup>2</sup> )
  - What are the construction constraints? How much space for detectors, computers and cables is there?
  - low energy; do we want to go down to the iron knee? **If so: close (=many) detectors? or hybrid triggering??**
- Power consumption (LORA = 500 W, master PC 250 W, DAQ 5x50W)