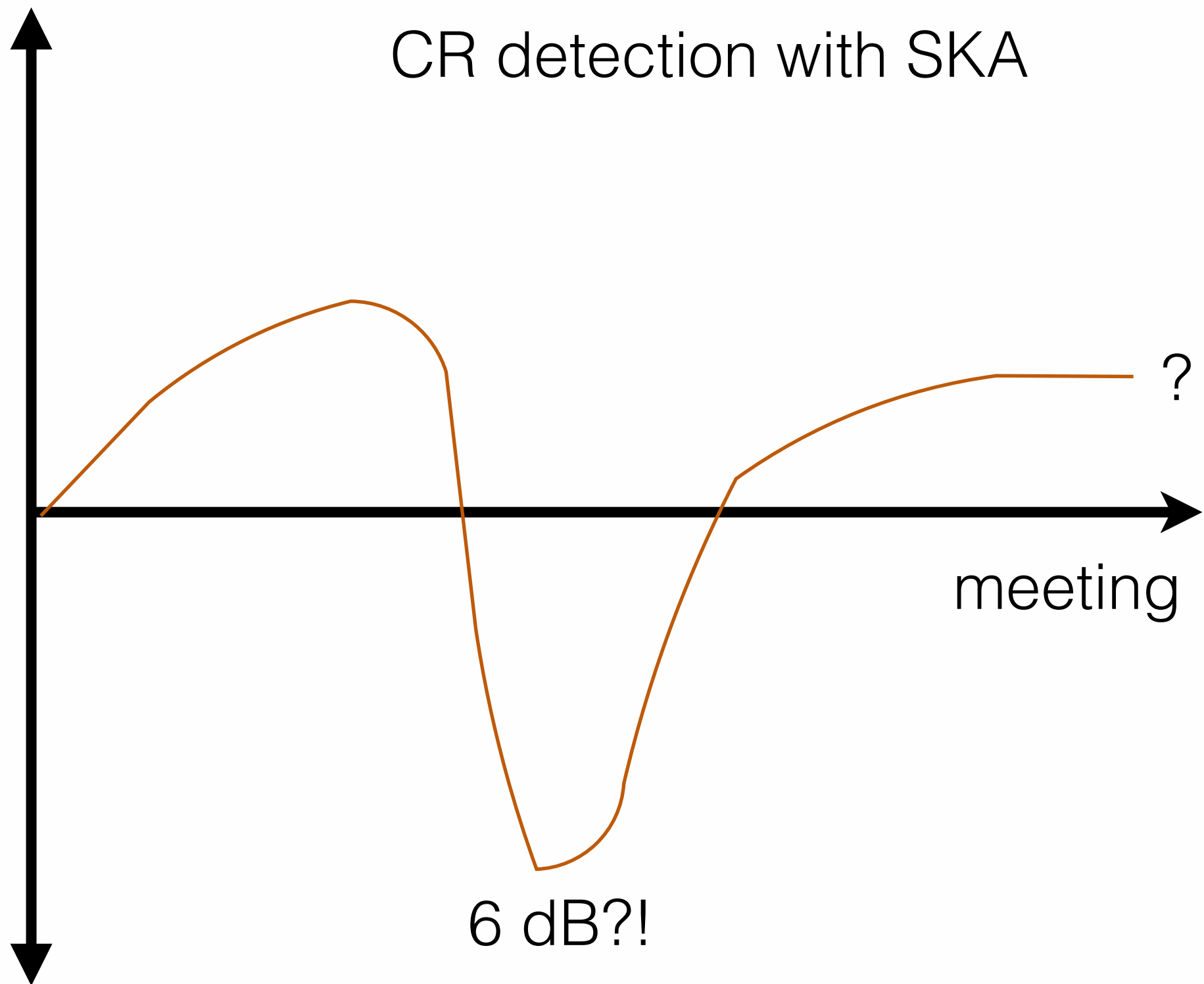


CR detection with SKA

supercool

useless



meeting

6 dB?!

?

Science Case

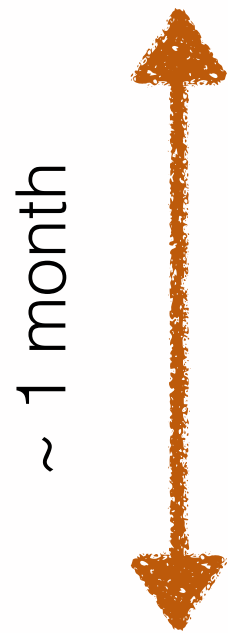
- Composition from iron knee to the ankle
- Anisotropy of proton component (galactic vs extragalactic origin)
priority for coming months
- Air shower physics, hadronic interaction beyond LHC-scale, tomography
next priority
- Emission process at high frequencies
for “insiders”
- Thunderstorm research
very unpredictable, but important to always mention!

SKA vs LOFAR

- Clearest advantage:
Statistics >10x Large effective duty cycle essential!
- Higher quality in many respects:
better footprint coverage
larger bandwidth
better particle detectors
better antenna calibration (?)
is this just incremental?
or game-changing? (tomography, hadronic interactions, etc.)
- Travel to Australia instead of Exloo

Timeline

or: why Anne will not go on holiday this summer



~ 1 month

- Make baseline design particle detector
- Run simulation to demonstrate science potential for composition & anisotropy
- Write ECP + Use Case

summer



~ 6-12 months

- Stockholm meeting; work towards KSP
- Study potential air shower physics/tomography
- Internal evaluation: go/no-go

baseline design

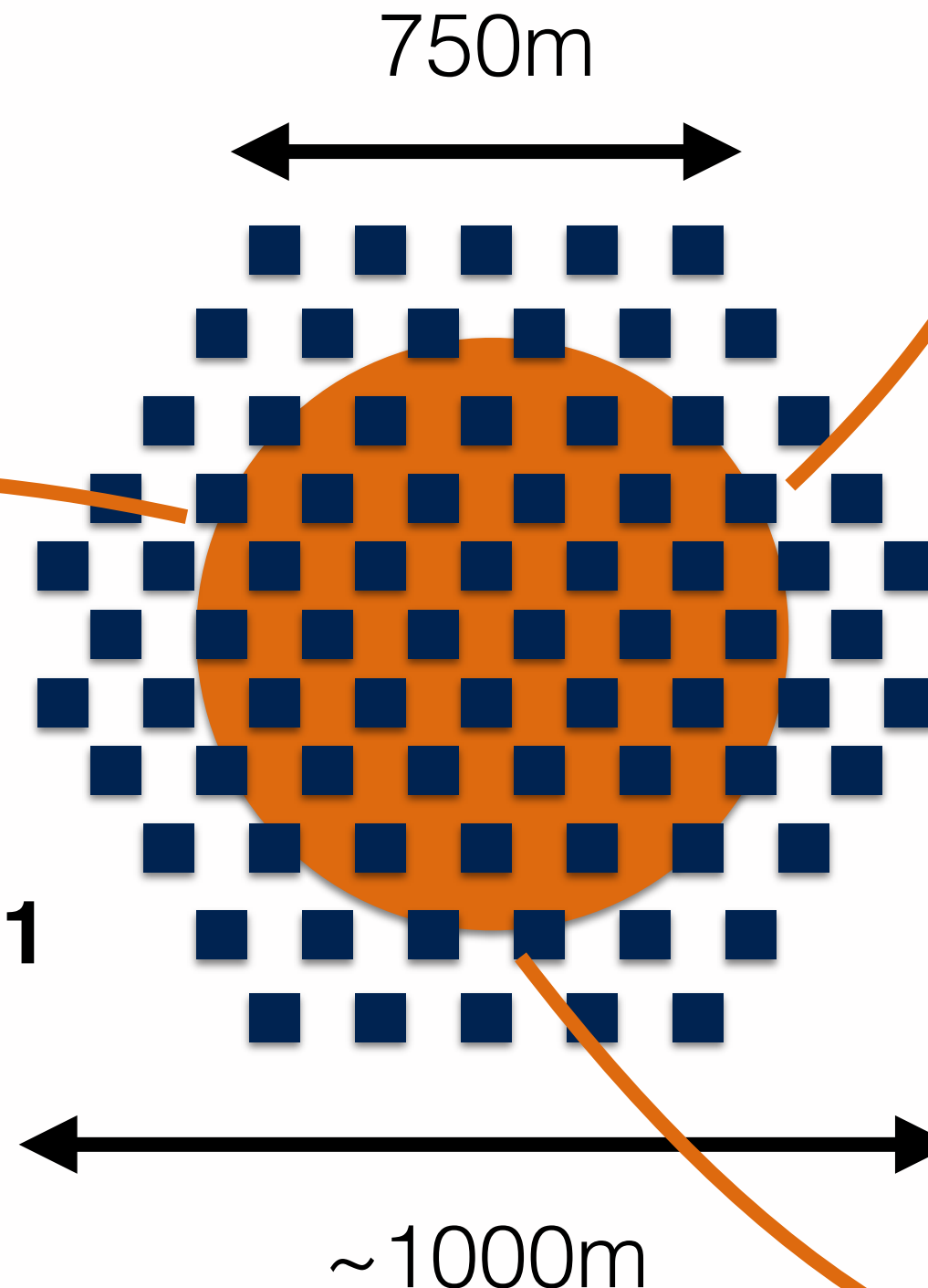
~ 100 flat scintillator detectors (1-4 m² size)
between SKA stations (~ 35 m spacing or more)
also 100-200m outside core

for ECP:

simulation with
simple choices

SKA-LOW1

for all other details, plans,
and promises: **Trello**



ROCCOS
BAR & RESTAURANT

Award Winning

Sunday Carvery

Served Every Sunday 12pm - 6pm

A SELECTION OF THE
FINEST ROASTED
MEATS, SERVED WITH
ALL THE TRIMMINGS.

£10.95

CHILDREN EAT FOR HALF PRICE



“Let’s have a carvery!”