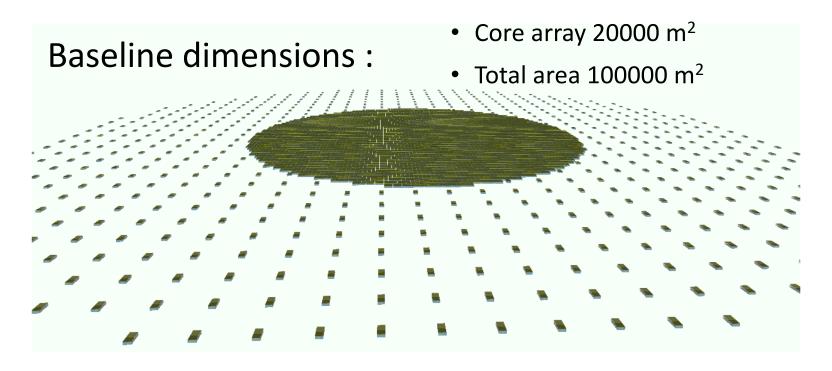
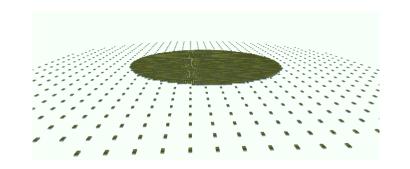
# LATTES sparse array



- Extend LATTES sensitivity to higher energies (~ 100 TeV);
- Improve sensitivity at low energies (veto hadron showers outside the core array);

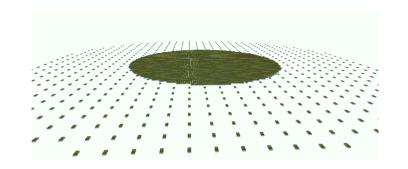
## LATTES sparse array



### Several parameters to be studied/optimised :

- Sparse density
  - Constant ? Graded ?
  - High-energy performance vs shower vetoing
- RPCs needed in the sparse stations? Maybe not...

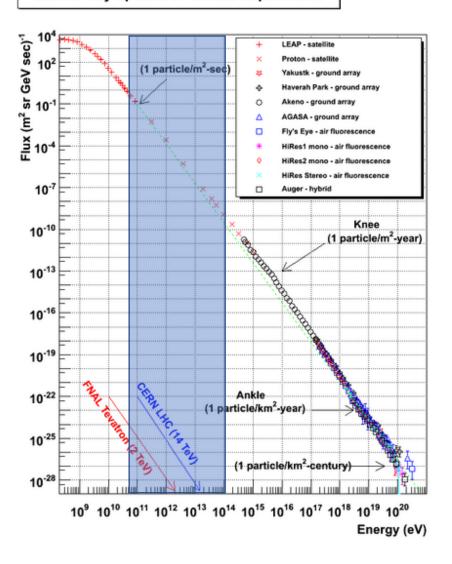
## LATTES sparse array



### Several parameters to be studied/optimised :

- Sparse density
  - Constant ? Graded ?
  - High-energy performance vs shower vetoing
- RPCs needed in the sparse stations? Maybe not...
- Sparse array already setup in LATTES simulation.
- Present strategy is to simulate the sparse area with the same density as the core array; remove stations afterwards.

#### Cosmic Ray Spectra of Various Experiments



# Acknowledgements







