

COMPOSITION

Monday, September 21, 2015 - Wednesday, September 23, 2015

KIT Campus North

Scientific Program

The scheme of the workshop is

to start with keynote talks on the three main topics:

1. experimental results

2. source and propagation models

3. hadronic interactions and shower physics

to have contributions from experiments or related to questions like:

 topic 1:

Auger

TA

KASCADE-Grande

IceTop

Tunka

Anchor point on composition from direct measurements (CREAM?)

future experiments (EUSO, HAWC, LHAASO)

how does radio help in composition measurements (LOPES, LOFAR, AERA)

How can results from old experiments still be useful (AKENO, Haverah Park)

...

 topic 2:

SNR as sources of CRs

source constraints from neutrino measurements

Acceleration models (beyond 10^{16} eV)

composition models: what to expect from known cosmic accelerators

composition models: constraints

Cosmic ray accelerators seen with Gamma ray astronomy

composition changes during propagation

where is the gal - extra-gal transition?

dip vs ankle model

...

 topic 3:

Relevant new LHC results

particle production / cross sections / forward physics ...

Pb-Pb results : implications on had. models?

performance and future evolution of QGSJET

performance and future evolution of EPOS

performance and future evolution of SIBYLL

Limitations of CORSIKA from other than HE hadronic models

...

And finally extended discussions on open problems and the future of the field!