

ACP 2020 Particles & Nuclei Track

Some initial considerations

Sessions in agenda

We have the following sessions (week beginning 20 July 2020) – ASP students will attend all sessions; teachers will not (?).

Overall timetable here:

<https://indico.cern.ch/event/812393/timetable/?view=standard#day-2020-07-20>

- Monday 11.00-12.30, currently “Standard Model of PP” - 90’ total
 - ATLAS, CMS talk(s)
 - LHCb talk?
 - DUNE / other neutrino talk(s) ?
 - Others?
- Wednesday 11.00-12.30, currently “Beyond the Standard Model” - 90’ total
 - ATLAS / CMS talk(s)
 - Others ? Any specific connections with African institutes/scientists?
- Thursday 9.00-10.30, currently “Nuclear and Heavy Ion physics” - 90’ total
 - ALICE + other heavy ions
 - Jlab
 - Talks from other nuclear labs, iThemba? In Europe (e.g. FAIR?)

In all sessions, speakers from beyond Africa, from Africa and from Morocco / region ...previous ASP students would be great...

- “Large” and “small” talks? Need time for contributed talks – but there is 2h on Tuesday afternoon for selection of those

Scope - other sessions

There are other “possibly overlapping” sessions covering

- Accelerators (and medical)
- Astrophysics and cosmology
- Machine learning and HPC

Possible overlaps related to “astroparticle” and “particle astro” topics such as:

- Dark matter direct detection
- Gravitational waves
- Astronomy with particles (CTA, Hess, Icecube etc)

Similarly for LHC, future colliders etc – mainly accelerator session?