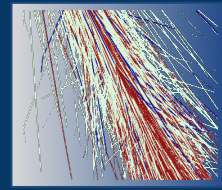


Towards a new structure for the CORSIKA project

Ralf Ulrich, 21.10.2021

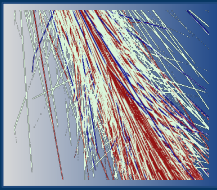


CORSIKA 8 vision, and scope

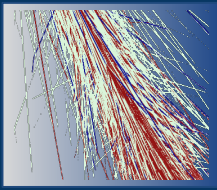
not just a refurbished CORSIKA 7.

- CORSIKA 8 is a **community platform** for interested worldwide experts in air shower physics
- CORSIKA 8 can provide a lot of **structurally related services** beyond “just” air shower simulations (well maintained, tested, modular, bundled):
 - take the **long-term goal** seriously to provide a tool overarching and connecting astroparticle physics, particle physics, nuclear physics, astrophysics, exoparticle physics, exo biology, lunar physics, beyond the standard model physics, etc. etc.
- Make CORSIKA 8 so **modular, efficient, well designed and universally useful** that it becomes the very first task of every astroparticle physicist to run [the equivalent of] ``conan install corsika``

Next steps



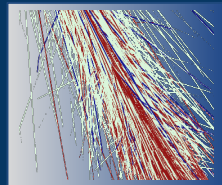
- Be not shy to make bold and significant proposals and suggestions. We really can and must consider ANY needed improvement.
- Do not get comfortable with the status-quo
- Always watch out where it must be improved or what is missing.



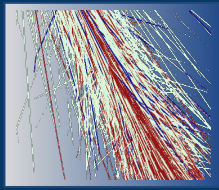
Organizational changes

- Main issue: I am not really available for the C8 project any more after 1st Feb. 2022.
- Organization of project and meeting, planning, prioritizing and approving of work must be done by you.
- Small “scientific steering committee”, supported by subject-matter-experts (maintainers).
 - The steering committee is needed and must be small to remain responsive, coherent and efficient.
 - The subject-matter-experts can be many people working on sub-parts of C8 as official maintainers. They may be responsible for MRs and Issues with specific Labels: approval of them and discussions are required.

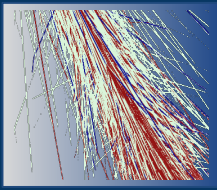
Scientific steering committee



- Scientific steering committee members must be:
 - active and connected
 - with constructive interactions between them,
 - must oversee significant overarching portions of the project
 - reflecting the most important (also future) physics aspects and experimental collaborations.
 - The committee should be small, best not more than 5.



- KIT will remain committed to C8
- The project center in terms of manpower and resources will remain at KIT.
- But don't be mistaken: an increased incorporation and contribution from worldwide collaborators is much needed at the moment and in the future.
- This should be reflected in the project, and the steering committee.



- Please discuss any of these issues either in one of our meetings, or also directly with me and others.
- Proposal for concrete setup of steering committee are investigated right now.
- The steering committee will be incorporated, and finally be responsible, for all plannings.

More discussions

