Contribution ID: **122**   Type: **presentation**

ATLAS OpenData and OpenKey: using low tech computational tools for students training in High Energy Physics

Thursday, 12 July 2018 15:00 (15 minutes)

One of the big challenges in High Energy Physics development is the fact that many potential -and very valuable- students and young researchers live in countries where internet access and computational infrastructure are poor compared to institutions already participating.

In order to accelerate the process, the ATLAS Open Data project releases useful and meaningful data and tools using standard and easy-to-deploy computational means, such as custom and light Linux Virtual Machines, open source technologies, web and desktop applications. The ATLAS Open Key, a simple USB pen, allows to transport all those resources around the globe. As simple as it sounds, this approach is helping to train students that are now PhD candidates and to integrate HEP educational programs at Master level in universities where did not exist before.

The software tools and resources used will be presented, as well as results and stories, ideas and next steps of the ATLAS Open Data project.

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Session Classification: T2 - Offline computing

Track Classification: Track 2 –Offline computing