

## Atlas Nightly on Arm

*Friday 13 February 2015 11:10 (20 minutes)*

The ATLAS software framework (ATHENA) is large and dynamic, comprised of around 6.5 million lines of code. It is built in the NICOS system which uses tools and scripts located and tuned for the LXPLUS and AFS systems. Furthermore, the constraints placed on the hardware that the software is based is limiting. A local build of ATHENA is somewhat difficult on a traditional computer and even more difficult on an ARM based CPU. With the sudden interest in ARM processors for large scale high energy physics computing, a new system needs to be implemented to build ATHENA versions for ARM, on ARM. This letter serves to introduce a new build framework called Atlas Nightly on ARM (ANA). This new framework implements patches to suit the ARM architecture with the goal of a final ATHENA version for ARM.

**Presenter:** SMITH, Joshua Wyatt (University of Cape Town (ZA))