

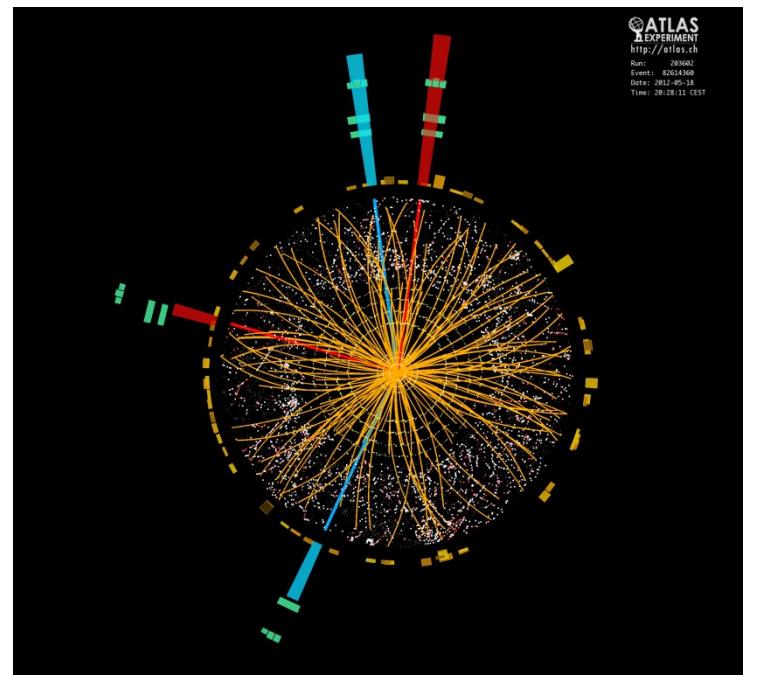


From hits to the Higgs.

Tuesday, 28 May 2019, DESY Auditorium, 16:45 h

Sarah Heim (DESY)

The discovery of the Higgs boson in 2012 would not have been possible without efficient reconstruction of leptons and photons in the ATLAS detector. We still rely on excellent reconstruction of these objects when we perform Higgs boson property measurements. These measurements are crucial probes in the search for physics beyond the Standard Model. Highlighting the role of electron reconstruction and identification I will discuss cross section measurements in the $H \rightarrow ZZ^* \rightarrow 4l$ decay channel.



- *Coffee, tea and cookies will be served at 16:30h*
- *After the colloquium there is a chance for private discussions with the speaker over drinks and pretzels*