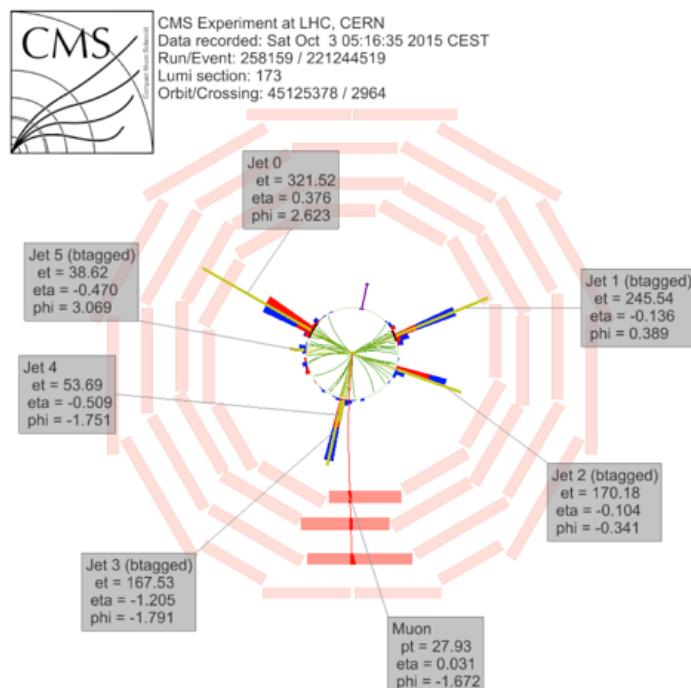




Top quark physics at the new energy frontier.

Maria Aldaya (DESY)

Tuesday, 23 May 2017, 16:45 h, DESY Auditorium



The top quark plays a very special role in the description of the structure of matter and interactions within the Standard Model (SM). It is by far the heaviest fundamental particle known to-date and therefore believed to be key to the mechanism that lends mass to elementary particles through their couplings to the Higgs boson. Moreover, the top quark is an excellent candidate to search for new physics phenomena beyond the SM. Thus, it is of great importance to measure the properties of the top quark as precisely as possible and to investigate its interaction with the Higgs. The LHC at CERN, with its unprecedented energies, provides a unique environment for these studies. In this talk I present recent top quark results from CMS and prospects for high precision measurements in LHC Run-II.

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

