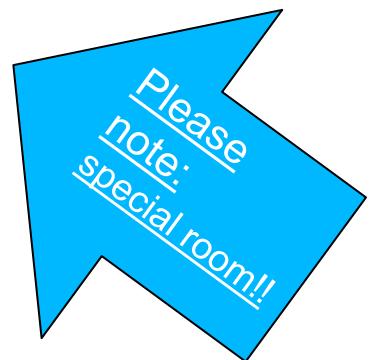
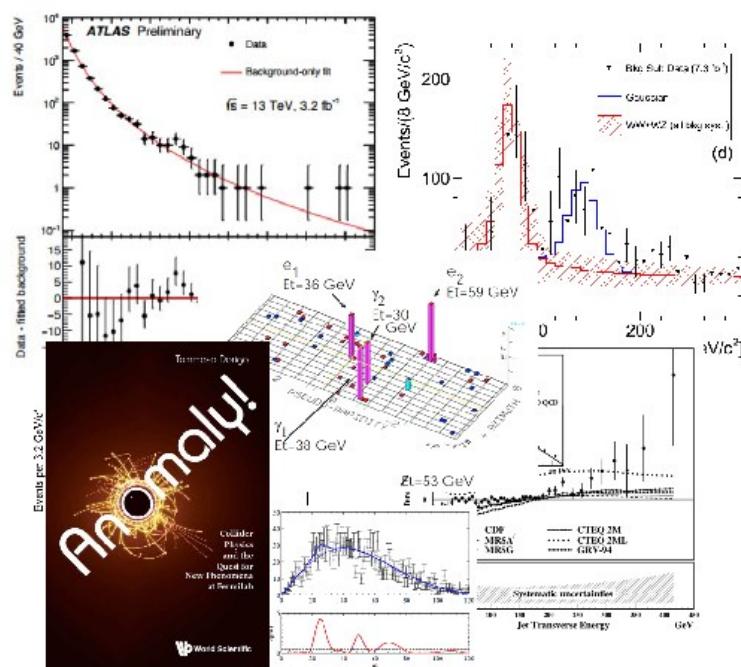




Extraordinary Claims: the 0.000029% Solution, or Anomalies in Collider Data.

Tommaso Dorigo (INFN / Padova Univ.)

Tuesday, 13 December 2016, 16:45 h, buildg. 1b, SR 4a+b



Extraordinary claims require extraordinary evidence. 48 years after its first invocation and 22 years after its first dutiful application, the five-sigma criterion used in HEP and astro-HEP does not appear adequate to cover all experimental situations. The seminar will start with a short history of the five-sigma criterion, will then focus on a few anomalies found in HEP data and on their resolution, and then discuss the statistical problem of defining a proper discovery level for new phenomena and on the non-trivial issues it entails.

- **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**

