

# Luminosity modeling for the LHC

*Tuesday 15 December 2015 17:15 (10 minutes)*

In this talk, a luminosity model based on the three main components of the LHC luminosity degradation (intra-beam scattering, synchrotron radiation and luminosity burn-off), is compared with data from runII. Based on a Fill-by-Fill and a bunch by bunch analysis and observations, other sources of luminosity degradation will be discussed. Finally missing pieces and next steps will be briefly discussed.

**Presenter:** ANTONIOU, Fanouria

**Session Classification:** Performance and limitations - part I