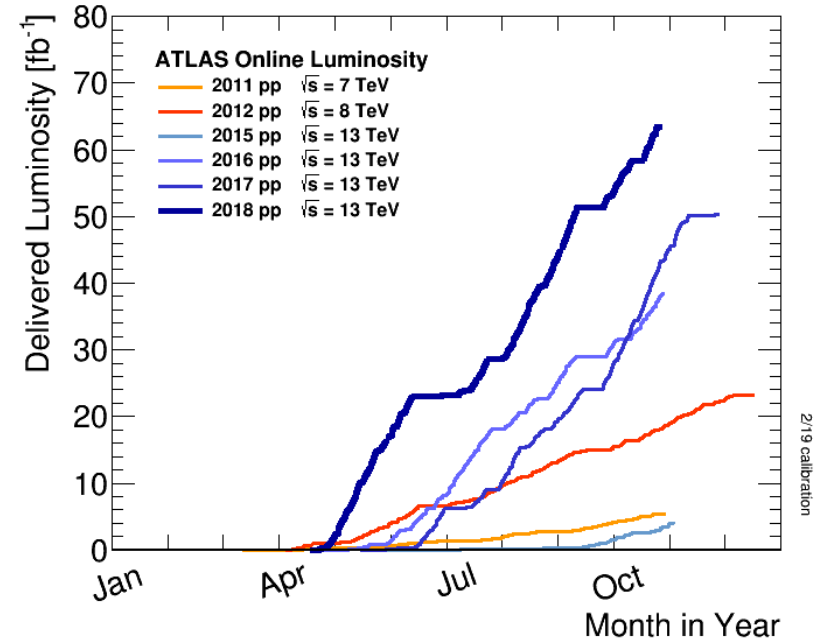


Homework

- Based on the LHC delivered luminosity plot *)
- How much luminosity has been changed from RUN1 (2011-2012) to RUN2 (2015-2018)?
 - What was most likely the main cause of this change?
 - Estimate how many Higgs bosons were generated during the 2016-2018 years of operation?



Assuming that Higgs production cross-section: $=10^{-35} \text{ cm}^2$

*) <https://twiki.cern.ch/twiki/bin/view/AtlasPublic/LuminosityPublicResultsRun2>