

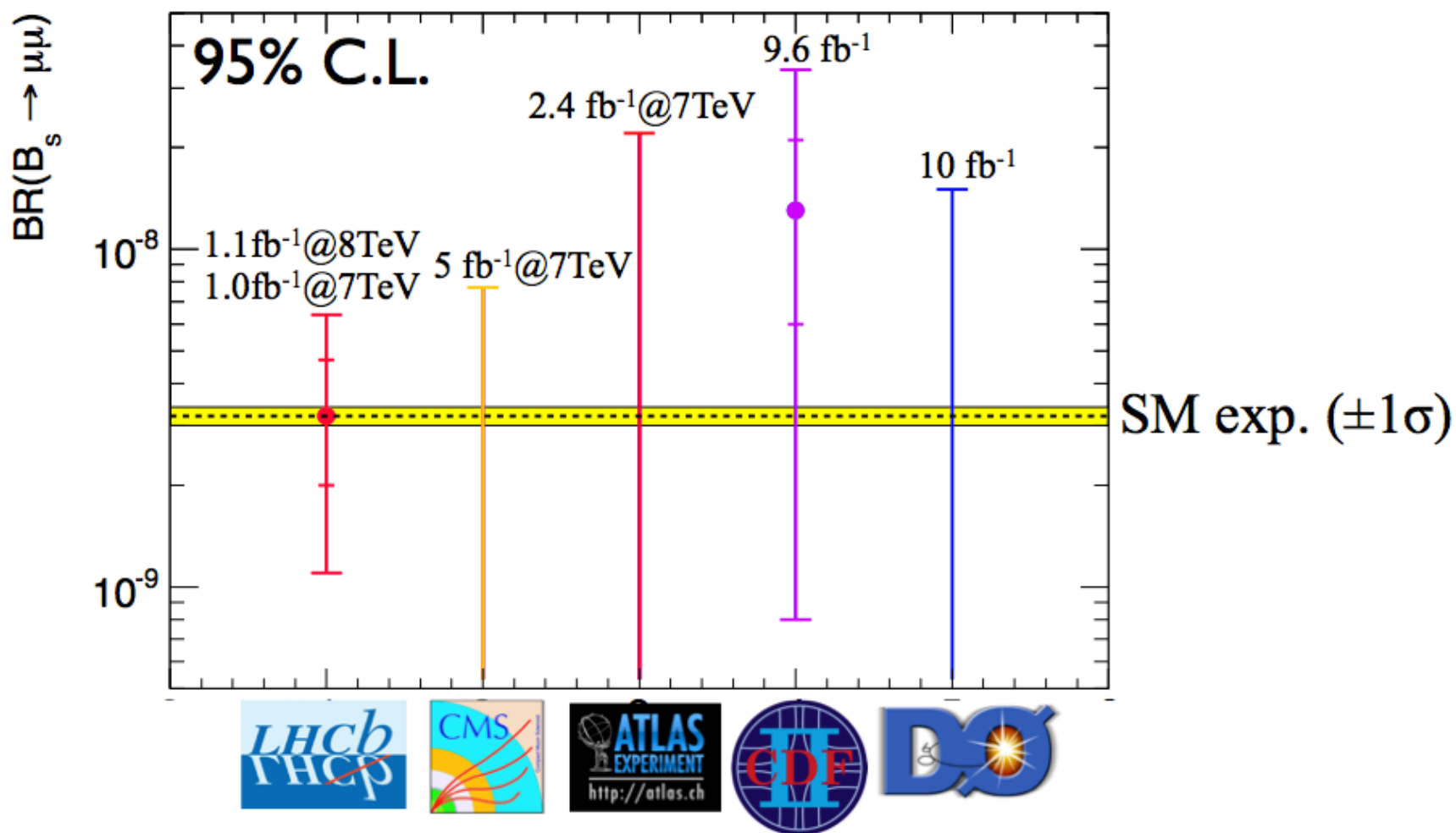
Discussion: short term (2011+2012 data)

- **Atlas**, **CMS** and **LHCb** are going to publish their analyses with full 2011-2012 datasets
 - Atlas will publish full 2011 dataset in the next few days
 - 2012 trigger changed not much wrt 2011 → almost same efficiency for Atlas and CMS during the two years
 - Atlas expects 9-10 SM signal events, CMS expects 10-12 events → It can be possible to measure central limit
 - For LHCb 10 B_s events / fb^{-1} expected
- All analyses are going to get improvements, like:
 - Invariant mass fit
 - MVA selection
- f_s/f_u : Atlas and CMS are making their measurements of f_s/f_u .
 - LHCb value used as reference since it has been observed to be η -independent
- All collaborations will update also the upper limit on $B_d \rightarrow \mu\mu$
 - B-decays ($B_d \rightarrow \pi\pi$, $B_s \rightarrow KK$, etc.) contributions to be estimated carefully

Discussion: long term

- The three collaborations will keep on studying these rare decays after LS1.
- Possibly $BR(B_s)$, $BR(B_d)$ and $BR(B_d)/BR(B_s)$
- LHCb will also measure the effective lifetime of $B_s \rightarrow \mu\mu$
- Main problem for Atlas and CMS is the trigger rate
 - Atlas is studying a level1 topological cut
 - invariant mass cut
 - CMS is studying how to reduce L1 and HLT rates
 - moving offline cuts to trigger level

Reaching the SM



backup

fragmentation fraction ratio f_s/f_d

