

# Measurement of $B_s^0 \rightarrow \psi(2S)\phi$ / $B_s^0 \rightarrow J/\psi\phi$ ratio

*Friday, January 5, 2018 8:55 PM (5 minutes)*

In this talk we will have a brief look at the two decay modes  $B_s^0 \rightarrow J/\psi\phi$  and  $B_s^0 \rightarrow \psi(2S)\phi$  and the measurement of the corresponding ratio. To guarantee identical topologies between the two decays we have chosen to only look at the  $\psi(2S) \rightarrow \mu^+\mu^-$  and  $J/\psi \rightarrow \mu^+\mu^-$  modes. A quick look at the peaking backgrounds  $B_s^0 \rightarrow J/\psi f_0(980)$  and  $B_s^0 \rightarrow \psi(2S) f_0(980)$  is also given attention.

## Summary

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**Session Classification:** Lightning talks and "Kos"