

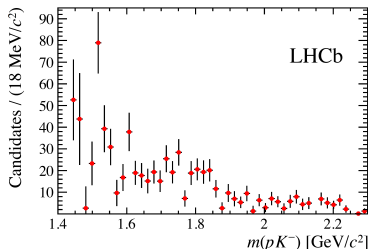
$b \rightarrow c$ FFs

$R(D^*)$ Description	Value
HFLAV'19 WA exp.	0.295 ± 0.014
Fajfer'12 CLN	0.252 ± 0.003
Ligeti'17 BGL	0.257 ± 0.003
Gambino'17 BGL	0.260 ± 0.008
HFLAV'19 SM avg.	0.258 ± 0.005
BABAR BGL	0.253 ± 0.005

- HO HQET corrections.
 - $R(D^*)$ seems \sim immune to FF variations. But angular observables?...
 - $B \rightarrow D^*$ angular moments: CLN had tiny errors!
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- P_τ : -0.483 ± 0.027 (BABAR-BGL), $-0.38 \pm 0.51^{+0.21}_{-0.16}$ (Belle'17)
 - CLN-Tanaka P_τ : -0.497 ± 0.013

$b \rightarrow s$ FFs

- LHCb has significant statistics for higher K^* resonances and $\Lambda_b^0 \rightarrow \Lambda^*$ decays.
- Just $\Lambda(1520)$ simply doesn't work for $\Lambda_b^0 \rightarrow \Lambda^*$:



- Can $\Lambda_b^0 \rightarrow \Lambda^* \gamma$ and $\Lambda_b^0 \rightarrow J/\psi \Lambda^*$ help?