

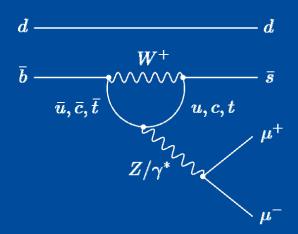


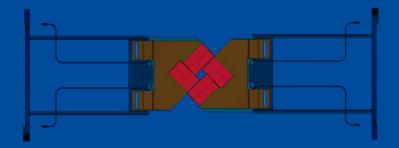
May Christmas Meeting





Supervisors: Dr David Hutchcroft and Prof Tara Shears





$B_d^0 \to K_1^0 \mu^+ \mu^-$

- Sensitivity study to determine whether there will be enough events in Run 3 at LHCb to be significant for analysis.
- Searching for right-handed weak currents using the opposite parity K^{*} decay channel.
- Potential to look at \bar{B}_d^0 for CP violation.

VErtex LOcator Alignment

- VELO sensors need aligning transformations to go from their ideal position their real position.
- Combining measurements of various offsets sensors on tiles, modules in the cavern etc.