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## Heavy flavor and exotic production at LHCb

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Heavy quark production is an important experimental observable that sheds light on the heavy quark interaction with the nuclear medium. With high statistics datasets, tracking and PID at very low transverse momentum, and excellent vertexing capabilities, LHCb performs precision measurements of a rich set of heavy flavor hadrons, including open charm hadrons and charmonia. These capabilities allow for precise studies of charm production, baryon enhancement and charmonia suppression in various colliding systems from  $pp$  to  $pPb$  and  $PbPb$ . Furthermore, the production of the exotic  $X(3872)$  and  $T_{cc}^+$  hadrons in  $pp$  and  $pPb$  collisions is also studied. We will present these results along with comparisons to theoretical calculations.

### Present via

Online

**Primary author:** SMITH, Krista Lizbeth (Los Alamos National Laboratory (US))

**Presenter:** SMITH, Krista Lizbeth (Los Alamos National Laboratory (US))

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