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Exploiting polarised Λ_b^0 baryons

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The LHC constitutes the first and currently only opportunity to perform precision measurements of Λ_b^0 baryons. These measurements provide useful information on flavour physics which complements the meson sector. Baryons stemming from the strong production mechanism at the LHC are unpolarized. At the FCC-ee however, the baryons are produced in the decay of Z^0 -bosons which can lead to polarization allowing access to a much larger number of interesting observables for searches beyond the SM as well as QCD studies. This poster discusses the measurement of angular observables in decays of polarised Λ_b^0 baryons, produced at the FCC-ee, to a Lambda and two oppositely charged muons.

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