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## **【348】 $\Lambda_c^+$ polarization measurement with the LHCb detector at the LHC**

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Charmed baryon polarization is not predicted by theory and is a necessary input for the measurement of the charmed baryons magnetic dipole moment (MDM) which is foreseen at the LHC. The experimental status of the baryon MDM measurement using the bending crystal technology will be discussed. Furthermore, the measurement of  $\Lambda_c^+$  polarization using  $pp$  collisions data collected by the LHCb detector at a center of mass energy of 13 TeV will be presented; the polarization is extracted by means of a five-dimensional amplitude analysis of the three-body decay  $\Lambda_c^+ \rightarrow pK^-\pi^+$ .

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