

Abstract Submitted
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Measurement of the Ξ_{c+} Lifetime with Belle II Simulations PAUL GEBELINE, JAKE BENNETT, University of Mississippi, BELLE II COLLABORATION¹ — We present a measurement of the lifetime of the Ξ_{c+} baryon using simulated data from the Belle II experiment, based at the SuperKEKB electron-positron collider in Tsukuba, Japan. Multiple Ξ_{c+} decay modes are investigated to explore the feasibility of lifetime measurements of this type at Belle II. After verifying the results on simulation, this study will be applied to Belle II data.

¹Belle II experiment, superKEKB electron-positron collider based in Tsukuba, Japan

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