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Hyperon EDM at the J/ψ threshold

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CP violation (CPV) is one of the key ingredients for our understanding of the baryon asymmetry. Despite its observation in kaons, B and D mesons, as well as recently the neutral Lambda b baryon, CPV has not yet been observed in hyperons. Using the 10 billion J/ψ events accumulated so far at BESIII and the hyperonic decay, we discuss the prospect of CPV exploration at the BESIII and beyond such as the STCF.

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