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Title:	Search for the in at near 10.6 GeV at belle.
Authors:	Bhardwaj, Vishal (/jspui/browse?type=author&value=Bhardwaj%2C+Vishal)
Keywords:	Lepton colliders particle production
Issue Date:	2021
Publisher:	American Physical Society
Citation:	Physical Review D, 104(1).
Abstract:	For the first time we search for the ηc2ð1DÞ in eþe− → γηc2ð1DÞ at ffiffi s p ¼ 10.52, 10.58, and 10.867 GeV with data samples of 89.5 fb−1, 711 fb−1, and 121.4 fb−1, respectively, accumulated with the Belle detector at the KEKB asymmetric energy electron-positron collider. No significant ηc2ð1DÞ signal is observed in the mass range between 3.8 and 3.88 GeV=c2. The upper limit at 90% confidence level on the product of the Born cross section for eþe− → γηc2ð1DÞ and branching fraction for ηc2ð1DÞ → γhcð1PÞ is determined to be σðeþe− → γηc2ð1DÞÞBðηc2ð1DÞ → γhcð1PÞÞ < 4.9 fb at ffiffi s p near 10.6 GeV.
Description:	Only IISER Mohali authors are available in the record.
URI:	https://doi.org/10.1103/PhysRevD.104.012012 (https://doi.org/10.1103/PhysRevD.104.012012) http://hdl.handle.net/123456789/5186 (http://hdl.handle.net/123456789/5186)
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