

Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)

- / Publications of IISER Mohali (/jspui/handle/123456789/4)
- / Research Articles (/jspui/handle/123456789/9)

Please use	this identifier to cite or link to this item: http://hdl.handle.net/123456789/4635				
Title:	Search for lepton-flavor-violating tau-lepton decays to ℓγ at Belle				
Authors:	Bhardwaj, Vishal (/jspui/browse?type=author&value=Bhardwaj%2C+Vishal)				
Keywords:	tau-lepton decays lepton-flavor-violating Belle				
Issue Date:	2021				
Publisher:	Springer Nature				
Citation:	Journal of High Energy Physics, 2021(10).				
Abstract:	Charged lepton flavor violation is forbidden in the Standard Model but possible in several new physics scenarios. In many of these models, the radiative decays $\tau \pm \to \ell \pm \gamma$ ($\ell = e, \mu$) are predicted to have a sizeable probability, making them particularly interesting channels to search at various experiments. An updated search via $\tau \pm \to \ell \pm \gamma$ using full data of the Belle experiment, corresponding to an integrated luminosity of 988 fb-1, is reported for charged lepton flavor violation. No significant excess over background predictions from the Standard Model is observed, and the upper limits on the branching fractions, $B(\tau \pm \to \mu \pm \gamma) \le 4.2 \times 10-8$ and $B(\tau \pm \to e \pm \gamma) \le 5.6 \times 10-8$, are set at 90% confidence level.				
Description:	Only IISERM authors are available in the record.				
URI:	https://doi.org/10.1007/JHEP10(2021)019 (https://doi.org/10.1007/JHEP10(2021)019) http://hdl.handle.net/123456789/4635 (http://hdl.handle.net/123456789/4635)				
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)				

Files	in	This	Item:

File	Description	Size	Format	
Need To AddFull Text_PDF. (/jspui/bitstream/123456789/4635/1/Need%20To%20Add%e2%80%a6Full%20Text_PDF.)		15.36 kB	Unknown	View/Open (/jspui/l

Show full item record (/jspui/handle/123456789/4635?mode=full)

. II (/jspui/handle/123456789/4635/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.