



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/123456789/3418>

Title:	Measurement of the integrated luminosity of the Phase 2 data of the Belle II experiment *
Authors:	Bhardwaj, V. (/jspui/browse?type=author&value=Bhardwaj%2C+V.)
Keywords:	Peak energy Belle II experiment Bhabha and digamma events
Issue Date:	2020
Publisher:	IOP Publishing
Citation:	Chinese Physics C 44(2),021001
Abstract:	From April to July 2018, a data sample at the peak energy of the $\Upsilon(4S)$ resonance was collected with the Belle II detector at the SuperKEKB electron-positron collider. This is the first data sample of the Belle II experiment. Using Bhabha and digamma events, we measure the integrated luminosity of the data sample to be $(496.3 \pm 0.3 \pm 3.0) \text{ fb}^{-1}$, where the first uncertainty is statistical and the second is systematic. This work provides a basis for future luminosity measurements at Belle II.
Description:	Only IISERM authors are available in the record.
URI:	https://iopscience.iop.org/article/10.1088/1674-1137/44/2/021001 (https://iopscience.iop.org/article/10.1088/1674-1137/44/2/021001) http://hdl.handle.net/123456789/3418 (http://hdl.handle.net/123456789/3418)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format	
Need to add pdf.odt (/jspui/bitstream/123456789/3418/1/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text	View/Open (/jspui/bitstream/123456789/3418/1/Need%20to%20add%20pdf.odt)

[Show full item record \(/jspui/handle/123456789/3418?mode=full\)](/jspui/handle/123456789/3418?mode=full)

[Statistics \(/jspui/handle/123456789/3418/statistics\)](/jspui/handle/123456789/3418/statistics)

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