



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/123456789/4776>

Title:	Polarization selective Dove prism
Authors:	K. Goyal, Sandeep (/jspui/browse?type=author&value=K.+Goyal%2C+Sandeep)
Keywords:	Polarization selective Dove prism
Issue Date:	2021
Publisher:	Optica Publishing Group
Citation:	Optics Express, 29(10), 14917-14930.
Abstract:	We propose a passive all optical device capable of transforming the orbital angular momentum (OAM) state of light conditioned over the polarization states. The efficiency of this device is ensured due to its linear optical nature. As applications of this device, we show CNOT and SWAP operations between polarization and OAM qubits, non-interferometric OAM mode sorter and generalized Pauli X operation on a four-dimensional subspace of OAM.
Description:	Only IISERM authors are available in the record
URI:	https://doi.org/10.1364/OE.420891 (https://doi.org/10.1364/OE.420891) http://hdl.handle.net/123456789/4776 (http://hdl.handle.net/123456789/4776)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format
Need To Add...Full Text_PDF (/jspui/bitstream/123456789/4776/1/Need%20To%20Add%e2%80%a6Full%20Text_PDF)		15.36 kB	Unknown

[View/Open \(/jspui/t](#)

[Show full item record \(/jspui/handle/123456789/4776?mode=full\)](#)

[Statistics \(/jspui/handle/123456789/4776/statistics\)](#)

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