



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/123456789/1949>

Title:	Commutator subgroups of twin groups and Grothendieck's cartographical groups
Authors:	Dey, Soumya (/jspui/browse?type=author&value=Dey%2C+Soumya) Gongopadhyay, Krishnendu (/jspui/browse?type=author&value=Gongopadhyay%2C+Krishnendu)
Keywords:	Doodle Twin group Cartographical group Combinatorial maps
Issue Date:	2019
Publisher:	Elsevier
Citation:	Journal of Algebra, 530, pp. 215-234.
Abstract:	Let TW_n be the twin group on n arcs, $n \geq 2$, which is a right-angled Coxeter group. The group TW_{m+2} is isomorphic to Grothendieck's m -dimensional cartographical group C_m , $m \geq 1$. In this paper we give a finite presentation for the commutator subgroup TW'_{m+2} , and prove that TW'_{m+2} has rank $2m - 1$. We derive that TW'_{m+2} is free if and only if $m \leq 3$.
URI:	https://www.sciencedirect.com/science/article/pii/S0021869319301875 (https://www.sciencedirect.com/science/article/pii/S0021869319301875) http://hdl.handle.net/123456789/1949 (http://hdl.handle.net/123456789/1949)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format
Need to add pdf.odt (/jspui/bitstream/123456789/1949/1/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text

[View/Open \(/jspui/bitstream/123456789/1949/1/Need%20to%20add%20pdf.odt\)](#)

[Show full item record \(/jspui/handle/123456789/1949?mode=full\)](#)

[Statistics \(/jspui/handle/123456789/1949/statistics\)](#)

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