



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/123456789/5175>

Title:	Orderability of link quandles
Authors:	Raundal, Hitesh (/jspui/browse?type=author&value=Raundal%2C+Hitesh) Singh, Mahender (/jspui/browse?type=author&value=Singh%2C+Mahender) Singh, Manpreet (/jspui/browse?type=author&value=Singh%2C+Manpreet)
Keywords:	Orderability link quandles
Issue Date:	2021
Publisher:	Cambridge University press
Citation:	Proceedings of the Edinburgh Mathematical Society, 64(3),
Abstract:	The paper develops a general theory of orderability of quandles with a focus on link quandles of tame links and gives some general constructions of orderable quandles. We prove that knot quandles of many fibred prime knots are right-orderable, whereas link quandles of most non-trivial torus links are not right-orderable. As a consequence, we deduce that the knot quandle of the trefoil is neither left nor right-orderable. Further, it is proved that link quandles of certain non-trivial positive (or negative) links are not bi-orderable, which includes some alternating knots of prime determinant and alternating Montesinos links. The paper also explores interconnections between orderability of quandles and that of their enveloping groups. The results establish that orderability of link quandles behaves quite differently than that of corresponding link groups.
Description:	Only IISER Mohali authors are available in the record.
URI:	https://doi.org/10.1017/s0013091521000419 (https://doi.org/10.1017/s0013091521000419) http://hdl.handle.net/123456789/5175 (http://hdl.handle.net/123456789/5175)
Appears in Collections:	Research Articles (/jspui/handle/123456789/9)

Files in This Item:

File	Description	Size	Format	
Need To Add...Full Text_PDF (1) (/jspui/bitstream/123456789/5175/1/Need%20To%20Add%e2%80%a6Full%20Text_PDF%20%281%29)	Only IISER Mohali authors are available in the record.	15.36 kB	Unknown	View

[Show full item record \(/jspui/handle/123456789/5175?mode=full\)](/jspui/handle/123456789/5175?mode=full)

[📊 \(/jspui/handle/123456789/5175/statistics\)](/jspui/handle/123456789/5175/statistics)

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