



# 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/123456789/5223>

Title:	Spectroscopic evidence of mixed angular momentum symmetry in non-centrosymmetric Ru <sub>7</sub> B <sub>3</sub> .
Authors:	Datta, Soumya (/jspui/browse?type=author&value=Datta%2C+Soumya) Sheet, Goutam (/jspui/browse?type=author&value=Sheet%2C+Goutam) Vasdev, Aastha (/jspui/browse?type=author&value=Vasdev%2C+Aastha) Ramachandran, Ranjani (/jspui/browse?type=author&value=Ramachandran%2C+Ranjani) Halder, Soumyadip (/jspui/browse?type=author&value=Halder%2C+Soumyadip) Motla, Kapil (/jspui/browse?type=author&value=Motla%2C+Kapil) Kataria, Anshu (/jspui/browse?type=author&value=Kataria%2C+Anshu) Singh, Ravi Prakash (/jspui/browse?type=author&value=Singh%2C+Ravi+Prakash) Chowdhury, Rajeswari Roy (/jspui/browse?type=author&value=Chowdhury%2C+Rajeswari+Roy) Arushi (/jspui/browse?type=author&value=Arushi)
Keywords:	Condensed-matter physics Superconducting properties and materials
Issue Date:	2021
Publisher:	Springer Nature
Citation:	Scientific Reports, 11(1).
Abstract:	Superconducting crystals with a lack of inversion symmetry can potentially host unconventional pairing. However, till today, no direct conclusive experimental evidence of such unconventional order parameters in non-centrosymmetric superconductors has been reported. In this paper, through direct measurement of the superconducting energy gap by scanning tunnelling spectroscopy, we report the existence of both s-wave (singlet) and p-wave (triplet) pairing symmetries in non-centrosymmetric Ru <sub>7</sub> B <sub>3</sub> . Our temperature and magnetic field-dependent studies also indicate that the relative amplitudes of the singlet and triplet components change differently with temperature.
Description:	Only IISER Mohali authors are available in the record.
URI:	<a href="https://doi.org/10.1038/s41598-021-99878-6">https://doi.org/10.1038/s41598-021-99878-6</a> ( <a href="https://doi.org/10.1038/s41598-021-99878-6">https://doi.org/10.1038/s41598-021-99878-6</a> ) <a href="http://hdl.handle.net/123456789/5223">http://hdl.handle.net/123456789/5223</a> ( <a href="http://hdl.handle.net/123456789/5223">http://hdl.handle.net/123456789/5223</a> )
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/123456789/5223/1/Need%20To%20Add%e2%80%a6Full%20Text_PDF%20%281%29)		15.36 kB	Unknown

[View](#)

[Show full item record \(/jspui/handle/123456789/5223?mode=full\)](/jspui/handle/123456789/5223?mode=full)

[Statistics \(/jspui/handle/123456789/5223/statistics\)](/jspui/handle/123456789/5223/statistics)

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