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## Academic Report (2020-21)

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Harish - Chandra Research Institute  
Chhatnag Road, Jhunsi  
Prayagraj - 211019, India

## Preprints:

1. Nishant and Manoj K. Yadav, *Cohomology, extensions and automorphisms of skew braces*, <https://arxiv.org/abs/2102.12235>.
2. Rahul Kaushik and Manoj K. Yadav, *Commutators in groups of order  $p^7$* , <http://arxiv.org/abs/2106.07205>.

## Conference/Workshops Attended:

1. 35th Annual Conference of RMS, India, December, 2020.
2. Group Theory Sangam, India, January - May (weekly), 2021.

## Invited Lectures/Seminars:

1. *The Schur multiplier of central product of groups*, GOTHIC, Online version of Ischia Group Theory Conference, University of Salerno, Ischia, Virtual, June, 2020.
2. *Surjectivity of commutator map for finite  $p$ -groups*, Algebra Seminar, Haifa University (Israel), Haifa, Virtual, November, 2020.
3. *Commutators in finite groups*, 80th Refresher Course, Punjabi University, Patiala, Virtual, November, 2020.
4. *Surjectivity of commutator map for finite  $p$ -groups*, Departmental Seminar, IISER TVM, Virtual, December, 2020.
5. *Group theory is the living room*, Refresher Course (Mathematics and Statistics), Guru Jambheshwar University of Science and Technology, Hisar, Virtual, January, 2021.
6. *Left braces*, In house Symposium, IISER Bhopal, Virtual, March, 2021.

## Other Activities:

1. Organised a semester long online weekly seminar series "Group Theory Sangam", January - May, 2021 (jointly with Anupam Singh, IISER Pune).
2. Served as an editorial board member of Proc. Math. Soc., IASc.
3. Refereed research papers for national and international journals.
4. Instructed Arpan Kanrar for his first semester graduate Project Course at HRI.
5. Served HRI on several committees.