

Young Topologists' Meet @ *cmj*

July 16th, 2018 to July 19th, 2018

Meeting Schedule

July 16th (Monday)

- 9:00 - 10:00 Mini-course 1: **Introduction to contact and symplectic topology** by Dheeraj Kulkarni
- 10:05 - 11:05 Mini-course 2: **Topology of toric manifolds** by V. Uma
- 11:05 - 11:30 Coffee break
- 11:30 - 12:30 Mini-course 3: **LS-category and the topology of motion planning** by Tulsi Srinivasan
- 12:30 - 13:30 Lunch break
- 13:30 - 14:15 **Geometric realizations of cyclic actions on surfaces** by Kashyap Rajeevsarathi (IISER, Bhopal)
- 14:15 - 15:00 **The geometry of Fuchsian groups** by Neeraj Kumar Dhanwani (IISER, Bhopal)
- 15:00 - 15:30 Coffee break
- 15:30 - 16:15 **Geometry of Orbifolds** by Praphulla Koushik (IISER, Trivandrum)
- 16:15 - 17:00 **Generalized braid groups and their commutators** by Soumya Dey (IISER, Mohali)
- 17:00 - 18:00 High tea and group discussions

July 17th (Tuesday)

- 9:00 - 10:00 Mini-course 1: **Introduction to contact and symplectic topology** by Dheeraj Kulkarni
- 10:05 - 11:05 Mini-course 2: **Topology of toric manifolds** by V. Uma
- 11:05 - 11:30 Coffee break
- 11:30 - 12:30 Mini-course 3: **LS-category and the topology of motion planning** by Tulsi Srinivasan
- 12:30 - 13:30 Lunch break
- 13:30 - 14:15 **Prime decomposition of orientable closed 3-manifolds** by Paramjit Singh (CMI)

14:15 - 15:00 **Surface homeomorphisms and Dehn-Lickorish theorem** by M V Ajay Kumar Nair (IISER, Bhopal)

15:00 - 15:30 Coffee break

15:30 - 16:15 **Universal Bundles and Classifying Spaces** by Reebhu Bhattacharyya (IIT, Bombay)

16:15 - 17:00 **Complex topological K-theory** by Maya Verma (IISER, Bhopal)

17:00 - 17:30 High tea

17:30 - 18:15 **Complex oriented cohomology theories and formal group laws** by Lokenath Kundu (IISER, Bhopal)

July 18th (Wednesday)

9:00 - 10:00 Mini-course 1: **Introduction to contact and symplectic topology** by Dheeraj Kulkarni

10:05 - 11:05 Mini-course 2: **Topology of toric manifolds** by V. Uma

11:05 - 11:30 Coffee break

11:30 - 12:30 Mini-course 3: **LS-category and the topology of motion planning** by Tulsi Srinivasan

12:30 - 13:30 Lunch break

13:30 - 14:15 **Free Quandles and knot quandles are residually finite** by Manpreet Singh (IISER, Mohali)

14:15 - 15:00 **Abstract cellular complex and its applications in image analysis** by R. Syama (PSG College, Coimbatore)

15:00 - 15:30 Coffee break

15:30 - 16:15 **Model Categories and Homotopy Colimits** by Apeksha Sanghi (IISER, Bhopal)

16:15 - 17:00 **Lack of Strøm-Hurewicz model structure on the category of graphs** by Shuchita Goyal (IIT, Bombay)

17:00 - 17:30 High tea

17:30 - 18:15 **Spectral bounds for vanishing of cohomology of simplicial complexes and an application to random neighborhood complexes** by Samir Shukla (IIT, Bombay)