

# **Summer Workout in Mathematics**

**June 1, 2022 – June 28, 2022**

**Venue: TIFR Centre for Applicable Mathematics, Bengaluru & Online**

The primary purpose of SWIM is to emphasize the importance of learning mathematics by doing it, with a focus on solving problems, understanding key examples that elucidate fundamental principles, and real world applications. The ideal participant would be interested in problem solving, be self-motivated and creative with a passion for discovering mathematical ideas and concepts. The programme will be extremely demanding and a lot of effort is expected from the students. A participant successfully completing this programme will discover the fun side of doing mathematics and may find it an exciting career choice.

## **Topics**

- Real Analysis
- Linear Algebra
- Statistical Learning
- Python Programming

## **Course Coordinators**

- Nishant Chandgotia
- Venky Krishnan
- Koushik Ramachandran
- Sivaguru Ravisankar
- Atul Shekhar
- Sreekar Vadlamani

## **Who can apply?**

Students going from II Year B.Sc. to III Year B.Sc. with mathematics as one of the majors. We highly encourage applicants from underrepresented groups such as women, first in the family to attend college, low-income families, underprivileged sections of society, living in remote parts of the country. A few participants will be selected to attend the programme in-person at TIFR CAM and a few others will attend online.

## **Financial support**

Students selected for in-person mode will be provided:

- Travel support as per GoI rules
- Accommodation & Local hospitality

**Application Form** available at

<https://forms.gle/HQmLDdN13nVsGpMFA>

## **Important Dates**

Application Deadline: **Friday, May 13, 2022**

Announcement of Selected Participants: **Monday, May 16, 2022**

**If you have additional questions, please email us at**

[swim@tifrbng.res.in](mailto:swim@tifrbng.res.in)

