

IMSc Outreach Calendar 2017-2018

Enriching Mathematics Education: 14th – 15th Sept 2017
Workshop for high school mathematics teachers

கணித கானகம்: 20th Oct 2017
Mathematics and science program in Tamil for school children

IMSc Open Day: 28th Oct 2017
Day long program of science talks and activities for school children

Teacher's Enrichment Workshop: 27th Nov – 2nd Dec 2017
Workshop for mathematics teachers of Engineering colleges

Women in Science: 10th Feb 2018
Science outreach initiative for girl students as part of the UN International Day of Women and Girls in Science

Science at the Sabha: 11th Feb 2018
Talks on science for the general public at The Music Academy

Summer School Students Workshop: 21st - 25th May 2018
Week-long summer science workshop for high school students

Teacher's Enrichment Workshop: 28th May – 2nd June 2018
Workshop for mathematics teachers of Arts and Science colleges

Facets: 2nd – 3rd July 2018
Mathematics program for college students

*dates are tentative, visit our website for updates: <http://www.imsc.res.in/outreach/>

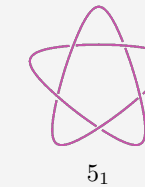
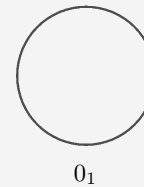
About the cover:

Imagine a piece of string. If you tie its loose ends together, you get a loop. However, there are ways of tying the loose ends together so that you can't untangle it to a circle – no matter how hard you try (no cutting and pasting!). These objects are knots, and they are of interest to mathematicians. Knots live in three dimensions, but they can be easily represented on paper by diagrams with lines crossing over and under each other. This cover features diagrams of some knots. Here, each knot is labelled by the number of crossings. As a fun exercise, you can make one of these knots and try to rearrange the crossings to look like one of the other knots shown here. You may be able to convince yourself that this is not possible, but proving it is much harder. In fact, there are algorithms to determine, whether a given knot can be obtained from another by re-arrangements. These algorithms and the related theory of knot invariants form an active area of current mathematical research.

The Institute of Mathematical Sciences (IMSc) is dedicated to fundamental research in the broad scientific disciplines of theoretical physics, mathematics, theoretical computer science and computational biology. IMSc outreach activities include a range of workshops that bring students and teachers into direct contact with research scientists. Our most recent initiative, "Science at the Sabha", is an annual event for the general public featuring talks on current scientific research.



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Outreach Activity

THE INSTITUTE OF MATHEMATICAL SCIENCES

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