

Undergraduate Mini-Seminars
June 26, 2014
2:00 p.m.
Math/Stat Lounge CW307.20

These mini-seminars are practice for the students who are attending the Canadian Undergraduate Mathematics Conference (CUMC) at Carleton University.

1 2:00 p.m.

Adam Gorr

An Algorithmic Approach to Prove that $SL_n(\mathbb{Z})$ is Finitely Generated

The group $SL_n(\mathbb{Z})$ of $n \times n$ integer matrices with determinant 1 is a countable group. In this lecture I will prove that there are $n^2 - n$ generators for $SL_n(\mathbb{Z})$ and that $SL_n(\mathbb{Z})$ contains a subgroup that is not finitely generated.

2 2:30 p.m.

Daniel Krumer

The Gelfand Naimark Segal

The Gelfand Naimark Segal (GNS) construction is a method in the theorem of operator algebras for constructing a cyclic representation of an arbitrary C^* algebra A on a Hilbert space from a positive linear functional on A . In this talk I will be introducing few examples of the GNS construction and walk through the general construction method. Also its applications such as Gelfand Naimark theorem and irreducible representations will be briefly discussed.

3 3:00 p.m.

Charlayna McGill

Details to be posted

There will be coffee and cookies. Please come and support these students!!