MUSA *Weekly*

MUSA presents…

REU Panel

Thursday, December 1, 2016
1015 Evans, 6pm

Are you looking for something to do in the summer related to **math**? In a few words, REU's are the canonical way for undergraduates to do **mathematical research**, which is a very helpful experience to have when applying to **graduate schools**. You get paid a generous **stipend** and will have a chance to submit your results to math conferences and maybe even **publish** a paper! Our academic officers have put together a group of your peers who've been in a variety of REU programs. **Snacks** will be provided!

Film screening at MSRI

On **Wednesday, November 30 from 2:30-3:30pm in the Simons Auditorium at MSRI**, filmmaker Ekaterina Eremenko will be visiting MSRI to screen her latest film, *Discrete Charm of Geometry*. A team of mathematicians is working together on a big project. Excitement of discovery, hope and disappointment, competition and recognition are shown up close. Scientists united by the idea of discretization, which, in short, means: constructing continuous objects from basic building blocks. Akin to the scientists' search for the right discretization of continuum, this film itself is composed of fragments – individual characters of different ages, temperaments and scientific approaches – which form a single continuous melody.

Math Monday Series

Monday, November 28 from 5 to 6pm in 740 Evans
Speaker: Vera Serganova
Title: *Supersymmetry in Algebra and Geometry*
Abstract: I will give a brief introduction to superalgebras and illustrate on examples how they appear in different areas of mathematics. My examples will include the proof of Amitsur-Levitski identity (the alternation sum of products of n matrices of size nxn is zero), the duality between orthogonal and symplectic groups and de Rham complex. We also discuss the notion of supertrace and Berezinian (superanalogue of determinant). The basic knowledge of linear algebra is required for understanding the talk.