The tropical numbers are an arithmetic in which addition and multiplication are maximum and (ordinary) addition, respectively. Just as a polynomial has the right number of complex roots, a tropical polynomial also has the right number of tropical roots, when "root" is correctly interpreted. There are a lot of parallels between complex and tropical geometry that are still poorly understood, though tropical geometry seems to be the right setting for some very deep conjectures at the interface between algebraic geometry and quantum physics. In this talk, we will explore some of these parallels and give an attempt at explaining how tropical geometry figures in mirror symmetry.

Time: Friday, 10/12/2017, 3:00-4:00pm
Location: MB 124
Refreshments: MB 226 at 2:40pm