

"To Infinity and Beyond"

with Jonathan Hanke

Abstract: In school you learn about geometry in the plane, properties of lines and circles, and in particular that any two non-parallel lines in the plane intersect in exactly one point. But what about the parallel lines? Are they destined forever to be apart? If you are willing to go to infinity, they can again meet, and this idea (well-known to artists) is one of the most fruitful and natural extensions of geometry in mathematics. Mathematician Jonathan Hanke will explain how one can use this idea to give a geometry where all lines behave in the same way, and some of the implications this has for mathematics, data communication and even card games.

Time/Place Information:

Brookhaven National Laboratory

Saturday September 13, 2014 -- 9-11:30am