Algebra
Seminar

Moonshine beyond the Monster

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Abstract: Over the last 35 years, Moonshine has been an intriguing subject in mathematics, providing a still somewhat mysterious connection among Number Theory, especially the theory of modular forms, Representation Theory of finite groups, and Mathematical Physics. In the first part of my talk, I explain the general phenomenon of Moonshine at the historically first instance of so-called Monstrous Moonshine, as well as the more recent case of Umbral Moonshine. In the second part of the talk, I intend to talk in a bit more detail on recent joint work with M. J. Griffin proving a conjecture by J. Harvey and B. Rayhaun on Moonshine for Thompsons sporadic simple group and some joint work in progress with J. F. R. Duncan and K. Ono.

Tuesday, January 17, 2017, 4:00 pm

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Mathematics and Computer Science
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