CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, October 7
2:00 – 3:00 PM
Maria Sanford, Room 101

WHAT IS A CRYSTAL?

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Abstract

The interplay between representation theory and combinatorics has been studied for many years. A more recent development in this connection is the notion of a crystal, due to Kashiwara, which may be represented as a colored, directed graph, with Young tableaux as its vertices. My goal is to give a brief introduction to crystals and explain why they're useful. As an application, we will explain how this Young tableaux realization of the crystal B(infinity) applies to a p-adic integral formula. I will try to make it so that the only prerequisite for this talk is linear algebra.

For further information:
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