

## Kaitlin Reissig (Binghamton)

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### The Rectilinear Art Gallery Theorem

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#### Abstract for the Combinatorics Seminar 2012 March 13

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What is the minimum number of guards necessary to guard an art gallery so that every point is visible to some guard? I will discuss a special type of gallery called a rectilinear gallery. I will cover O'Rourke's proof that  $\lfloor n/3 \rfloor$  guards are necessary and sufficient to cover a rectilinear gallery with  $n$  sides.

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