

**CCSU**  
**DEPARTMENT OF MATHEMATICAL SCIENCES**  
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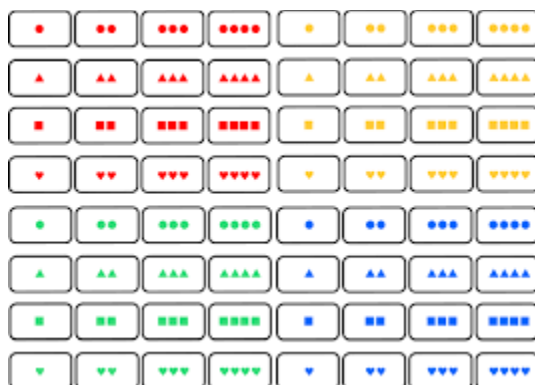
Friday, March 8  
3:00 – 4:00 PM  
Maria Sanford, Room 101

**QUADS: A SET-LIKE GAME WITH A TWIST**

**LAUREN ROSE**

**BARD COLLEGE**

**Abstract:** Quads is a card game similar to SET, with 81 cards, each containing 1-4 objects in one of 4 colors and one of 4 shapes. The goal of the game is to find “quads”, which are sets of 4 cards that satisfy a particular pattern. We will explore some mathematical properties of this game, and in particular the question of how many cards you must lay down to guarantee a quad.



**Bio:** Lauren Rose is a mathematics professor at Bard College. Her research areas include algebraic combinatorics, finite geometry, and recreational math. She is a Fellow of the Association for Women in Mathematics and holds leadership roles in both the Math Circle and Undergraduate Research communities. Her main goal in life is to make deep mathematics fun and accessible to all.

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