

let  $G$  be a group.  $f: \mathbb{R} \rightarrow \mathbb{R}$

**THE COLLEGE OF SCIENCES AND  
MATHEMATICS  
AND R. W. YEAGY COLLOQUIUM PRESENT:**

# **YOUNG TABLEAU RECONSTRUCTION USING JEU DE TAQUIN**

BY  
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WEDNESDAY, MARCH 5 @ 4:00PM

**ROOM 357**  
BUSH MATH BUILDING

## **ABOUT THE TALK**

RECONSTRUCTION PROBLEMS ARE A VERY GENERAL CLASS OF PROBLEMS THAT ASK WHETHER WE CAN UNIQUELY DETERMINE A MATHEMATICAL OBJECT FROM PARTIAL INFORMATION. ONE EXAMPLE INVOLVES STANDARD YOUNG TABLEAU -- SHAPES MADE FROM NUMBERS -- THAT CAN BE TRANSFORMED THROUGH IDEAS FROM AN OLD GAME CALLED JEU DE TAQUIN. IN THIS TALK, WE'LL EXPLORE A RECONSTRUCTION PROBLEM INSPIRED BY THIS GAME: CAN WE REBUILD A STANDARD YOUNG TABLEAU FROM A SET OF SMALLER TABLEAU, CREATED BY REMOVING ENTRIES AND APPLYING JEU DE TAQUIN SLIDES?