

# Special Colloquium



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## **"MODULAR REPRESENTATION THEORY AND PARITY SHEAVES"**

IN THE 1920'S, WEYL PROVED A FORMULA FOR THE CHARACTERS OF THE IRREDUCIBLE REPRESENTATIONS OF REDUCTIVE GROUPS (E.G., THE GENERAL LINEAR GROUP) OVER THE COMPLEX NUMBERS. IN 1979, GEORGE LUSZTIG ANNOUNCED A CONJECTURAL CHARACTER FORMULA FOR REPRESENTATIONS OF REDUCTIVE GROUPS OVER FIELDS OF POSITIVE CHARACTERISTIC. I WILL BRIEFLY DISCUSS A HISTORY OF THE PROBLEM AND EXPLAIN THE ROLE OF NEW GEOMETRIC OBJECTS CALLED PARITY SHEAVES IN RECENT ADVANCES.

**Thursday, March 13th, 2014**

**Room 284, the 2nd Floor of the Surge Building**

**Tea Time @ 3:40 p.m.**

**Talk Begins @ 4:10 p.m.**

**Ends @ 5:00 p.m.**

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