

CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, October 29
2 – 3 PM
Maria Sanford, Room 101

PLETHYSMS OF SYMMETRIC POWERS

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Abstract: A fifty year old conjecture by Foulkes states that there is a $GL(V)$ linear embedding of $S_a(S_bV)$ into $S_b(S_aV)$ for $a \leq b$. This has long since been proven for the case $a=2$. I will talk about highest weight vectors in these cases and relate these to double cosets for a particular wreath product as a subgroup of a symmetric group.

(Except for the discussion of the wreath product (which is elementary but confusing), the talk should be accessible to anyone with knowledge of linear algebra).

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