

1103-05-78

Greta Panova* (panova@math.upenn.edu), UPenn mathematics department, 209 south 33rd street, Philadelphia, PA 19104. *Kronecker coefficients*.

We will consider several aspects and new results related to the Kronecker coefficients of the Symmetric group S_n . The question on their positivity plays a role in the Saxl conjecture on whether the tensor square of a particular irreducible representation of S_n contains all irreps. Another aspect is their new role in the Geometric Complexity Theory aimed at resolving the P vs NP problem. This talk will be based on several papers joint with Igor Pak and Ernesto Vallejo. (Received August 13, 2014)