

The Knutson-Savitskii Conjecture

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Abstract

A complex representation of a group G is a group homomorphism from G to $GL_n(\mathbb{C})$ and a character is the trace of the of the matrix corresponding to an element of the group. About 40 years ago, Knutson conjectured that for every irreducible character, there is a generalised character such that their tensor product is the regular character. Savitskii disproved this in 1993 and posed a new conjecture. In this talk, after a brief introduction to Character Theory, we will disprove Savitskii's Conjecture and discuss its relations to Kaplansky's Sixth Conjecture.

Time: 12 pm , 15th June 2022

Location: B3.02

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