IRREDUCIBLE REPRESENTATIONS OF KNOT GROUPS INTO $\text{SL}(n, \mathbb{C})$

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Abstract: The aim of this article is to study the existence of certain reducible, metabelian representations of knot groups into $\text{SL}(n, \mathbb{C})$ which generalize the representations studied previously by G. Burde and G. de Rham. Under specific hypotheses we prove the existence of irreducible deformations of such representations of knot groups into $\text{SL}(n, \mathbb{C})$.

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