
On the Morse index of minimal tori in \mathbb{S}^4

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Urbano's Theorem plays an important role in Marques-Neves' proof of Willmore conjecture in \mathbb{S}^3 . In this talk we will prove that Urbano's theorem holds for minimal tori in \mathbb{S}^4 . To be concrete, we show that for a minimal torus in \mathbb{S}^4 , its Morse Index ≥ 6 , with equality holding if and only if it is congruent to the Clifford torus. This is a joint work with Prof. Rob Kusner (UMass Amherst)

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