

Seminário de Geometria

Morse index for catenoids

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14:00 Horas

Sala ASS 432/10 (subsolo do MAT).

Resumo: It was conjectured that the n -dimensional critical catenoid has Morse index $n + 2$. I will present a joint work with Graham Smith, Ari Stern, and Hung Tran that the Morse index $M I(n)$ of an n -dimensional critical catenoid satisfies: $M I(2) = 4$, $M I(3) = 5$, $M I(4) = 6$, $M I(5) = 21, \dots$, and $M I(100) = 350, 319, 724, 626$. In general, we obtain an asymptotic formula for $M I(n)$.