



FMSP Lectures

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Lifting of maps between surfaces

September 10 (Thursday) 15:30 ~ 16:30 Room 056

Abstract:

The Thom conjecture says the algebraic curves have minimal genus among those surfaces imbedded in CP^2 having fixed degree. This conjecture was solved by Kronheimer and Mrowka by using Seiberg-Witten invariants. In this talk we try to understand the content of this conjecture. We will construct these imbedded surface with minimal genus explicitly, and present some kind of generalization of this conjecture.