國立中山大學應用數學系
學術演講

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講　題：Minimal genus for 4-manifolds with $b^+=1$
時　間：2015/3/19（星期四）15：10～16：00
地　點：理學院四樓理 SC 4009-1 室

摘要

　　The minimal genus problem is one of the main theme in low dimensional topology.It was studied by Wall, Minlor, Rokhlin, Thom and many mathematicians in 50s. For instance, the Thom conjecture states that a smooth algebraic in CP^2 has minimal genus within its homology class. It was first proved by Kronheimer and Mrowka using Seiberg-Witten invariant in 1994. Using similar technique, we generalize the result and provide lower bound of the genus of embedded smooth surfaces which depends only on the intersection forms and the (co)homology classes but not on the smooth structure. In this talk, I will introduce this problem and the results from classical and modern eras.

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