

2014학년 1학기

# 수학전공 Colloquium

◆ 제 목 : How to construct 4-manifolds

◆ 연 사 : 박종일 (서울대)

◆ 초 록 : One of the fundamental problems in the geometry and topology of 4-manifolds is to classify simply connected smooth/symplectic 4-manifolds and complex surfaces. Even though gauge theory, in particular Seiberg-Witten theory, has been very successful in this question, the complete answer is still far from reach.

In this talk, I'd like to review various known techniques such as blowing-up, ber-sum, Logarithmic transform, rational blow-down surgery, knot surgery and Luttinger surgery producing a new family of 4-manifolds in smooth, symplectic and complex categories.

◆ 일 시 : 5월 8일(목) 오후 5시

◆ 장 소 : 5동 102