

COLLOQUIUM

Differential geometry of homogeneous,
almost-complex, but non-complex manifolds

- ▣ 연 사 : 김강태 교수님(포항공대)
- ▣ 일 시 : 2010년 5월 13일 (목) 4:30~5:30
- ▣ 장 소 : 수학전공 강의실 (31316호)
- ▣ 대 상 : 수학전공 학부생 및 대학원생
- ▣ 다 과 : 4시 15분부터 31316호실 앞

Abstract

A family of infinitely many (mutually inequivalent) manifolds that are homogeneous, almost-complex but non-complex manifolds has been discovered by K.H. Lee of KIAS some years ago. This is a new family of examples which expands the list complement to the famous list of E. Cartan's bounded symmetric domains. These Lee's models are not bounded per se, but in an invariant sense it is "bounded"! Notable work by K.H. Lee (from the viewpoint of Lie group actions), however, should be complemented by differential geometric characterization---that is the point of this lecture. I shall follow the recent work of my Ph. D. student Mr. Young-Jun Choi of POSTECH and present (the general drift of) this new theory.