

2015학년도 2학기

# 수학전공 Colloquium

제 목 Fixed points of symplectic circle actions.

연 사 장동훈 (고등과학원)

초

The study of fixed points of group actions is a classical and important topic in geometry and topology. During this talk, we focus on fixed points of actions in the case where manifolds admit symplectic structures and circle actions on the manifolds preserve the symplectic structures. We discuss main theorems on fixed points of symplectic circle actions, and their relationship with the question of when symplectic actions are Hamiltonian. Next, we study properties of symplectic circle actions with isolated fixed points, and discuss the classification of symplectic circle actions, when the number of fixed points is small. This talk is based on the work of the presenter 'Symplectic periodic flows with exactly three equilibrium points.' (Ergodic Theory and Dynamical Systems, vol.34 (2014) 1930-1963.) I will begin by what a symplectic manifold is, what a symplectic circle action is, and what a Hamiltonian circle action is. Basic examples will be provided.

록

일 시 9월 23일 수요일 5시

장 소 5E102