

COLLOQUIUM

Mathematics Department

2017년 9월 14일, 5시, 과학관 225

연사 **MILES REID** (University of Warwick, UK)

제목 Classification of varieties and
classification of Godeaux surfaces

The talk consist of two parts. The first gives an overview of the modern point of view of the classification of projective varieties via Mori theory. The aim is to use the intuitive idea of curvature familiar from plane geometry, where zero curvature (or flat geometry) corresponds to Euclidean geometry, positive curvature to spherical geometry, and hyperbolic non-Euclidean geometry corresponds to negative curvature, like the surface of a saddle or a Pringle's potato chip. The second part focuses on a particular case of surfaces of general type, that is, complex projective surfaces with negative Ricci curvature. Godeaux surfaces are the surfaces of general type with the smallest possible invariants $p_g = 0$, $K^2 = 1$. Despite being the "first case" in terms of invariants, these surfaces have a rich culture, and I describe two different programs of work in progress that aspire to give a complete treatment of their moduli. The more recent of these is by Isabel Stenger, a PhD student of Frank-Olaf Schreyer and Wolfram Decker at Kaiserslautern.

강연 전 4:40부터 다과회가 있습니다.

VISIT MATH.YONSEI.AC.KR FOR MORE DETAILS.