

# COLLOQUIUM

Seyedruhallah (Ruhi) Ahmadi  
University of Regina



Mathematics  
and  
Statistics

## On Homogeneous Kähler Manifolds

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2:30 pm  
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**Abstract:** In this talk I present some results of my PhD thesis (Supervisor: Dr. Bruce Gilligan). After some background material we prove that a finite covering of any homogeneous Kähler manifold with discrete isotropy and top non-vanishing homology in co-dimension two is biholomorphic to the product  $C \times A$ , where  $C$  is a Cousin group and  $A$  is  $\{e\}$ ,  $C$ ,  $C^*$  or  $C^* \times C^*$ .