

Mathematical Colloquia

Monday, May 27, 2019

17:15 h, Lecture Room 119

Prof. Dr. Tyson Ritter, University of Stavanger

Proper holomorphic embeddings of open Riemann surfaces into Stein complex surfaces

Abstract:

A long-standing unsolved question in complex geometry asks whether every open Riemann surface admits a proper holomorphic embedding into \mathbb{C}^2 . After presenting a short history of the topic, I will discuss some of the recent progress on this problem and its generalisation to the case of embeddings into other suitable targets, namely, Stein complex surfaces satisfying the density property. Along the way we will meet both strong, and soft, Oka properties for proper holomorphic embeddings.