A holomorphic triple $(E1, E2, \varphi)$, on a smooth projective curve C over the complex numbers, consists of a pair of coherent sheaves E1,E2 B Coh(C) and a morphism $\varphi: E1 \to E2$. We consider the abelian category TCoh(C) of holomorphic triples. The aim of this talk is to study Bridgeland stability conditions on D^b(TCoh(C)), including the stability conditions on TCoh(C) studied by Bradlow and García-Prada. Using semiorthogonal decompositions on D^b(TCoh(C)), we describe the stability manifold Stab(TCoh(C)).
This is joint work with Eva Martínez Romero and Arne Rüffer.