
ALEJANDRA VICENTE-COLMENARES, University of Waterloo

Stable co-Higgs bundles over $\mathbb{P}^1 \times \mathbb{P}^1$.

In this talk, we present the geometry of moduli spaces of stable co-Higgs bundles of odd degree over $\mathbb{P}^1 \times \mathbb{P}^1$. We will see, in particular, that for $c_2 = 0$ these moduli spaces are isomorphic to the moduli spaces of stable co-Higgs bundles of odd degree on \mathbb{P}^1 . Moreover, we will give an explicit description of the moduli for $c_2 = 1$.