

First Joint Meeting Brazil–Italy in Mathematics  
Special Session: GEOMETRIC STRUCTURES, LIE THEORY  
AND APPLICATIONS

Rio de Janeiro, August 29 - September 02, 2016

**Title:** Gauge theory on Milnor links

**Authors:** Henrique Sá Earp (Universidade Estadual de Campinas)

**Abstract:** We show Milnor's links of certain isolated hypersurface singularities admit a natural cocalibrated  $G_2$ -structure and a Yang-Mills instanton moduli space bearing a promising relationship to the Donaldson-Thomas construction for Calabi-Yau 3-folds.