

The seminar on differential geometry will continue with this lecture:

**October 26, 10am, online on MS Teams**

Join via this [LINK](#).

**Keegan Flood** (our new researcher, Masaryk university):

**The geometry of a certain class of singular solutions to the  $c$ -projective metrizability equation**

Abstract:

A nondegenerate solution to the  $c$ -projective metrizability equation is equivalent to a quasi-Kähler metric that is compatible with the  $c$ -projective class. By replacing this nondegeneracy condition on a solution to the metrizability equation with a nondegeneracy condition on its prolonged system we get a curved orbit decomposition of the underlying manifold where the open orbits inherit quasi-Kähler metrics and the closed orbits inherit CR-structures of hypersurface type. We may also examine the analogue of these considerations in the setting of projective geometry.