Martin Panak (MU AVCR, Brno, Czech Republic)
Bochner-Kaehler and special symplectic geometries

`Abstract:` The Bochner-Kaehler geometries are the special case of special symplectic geometries. We obtain a (local) classification of these based on the orbit types of the adjoint action in $\mathrm{su}(n,1)$. The relation between Sasaki and Bochner-Kaehler metrics in cone and transveral metrics constructions is discussed. The duality between Bochner-Kaehler and Ricci-type geometries is outlined. There is also a connection between some of the special symplectic geometries and Weyl structures.