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Totally geodesic submanifolds of homogeneous \mathbb{CP}^{2n+1}

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Abstract: In this talk, I will describe the homogeneous metrics on the complex projective spaces \mathbb{CP}^{2n+1} by using two different approaches based on the theory of homogeneous spaces and Riemannian submersions, respectively. Next, we classify totally geodesic submanifolds of dimension at least three in complex projective spaces equipped with an arbitrary homogeneous metric. This talk is based on ongoing joint work with Michaël Liefsoens and Alberto Rodríguez-Vázquez.

