

## Complex conformal geometry of isotropic curves in the complex quadric

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We study the complex conformal geometry of isotropic curves in the complex quadric  $Q^3 \subset CP^4$ . By an isotropic curve is meant a nonconstant holomorphic map from a Riemann surface into  $Q^3$  which is null with respect to the complex conformal structure of  $Q^3$ . The main motivation comes from differential geometry of surfaces. In fact, the point of view of isotropic curves provides a unifying framework for a number of relevant classes of surfaces in Riemannian and Lorentzian space forms. This is joint work with Emilio Musso.

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**Duración:** 1h