Seminario de Geometría y Topología

K-contact and Sasakian manifolds of dimension 5

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Resumen:

**Kollar has found subtle obstructions to the existence of Sasakian structures on 5-dimensional manifolds.
Based on them, we develop methods of using these obstructions to distinguish K-contact manifolds from Sasakian ones.
In particular, we find the first example of a closed 5-manifold with first Betti number b1=0 which is K-contact but which carries no semi-regular Sasakian structures.**

(Joint work with J.A. Rojo and A. Tralle).

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