

“ Thus, be it understood, to demonstrate a theorem, it is neither necessary nor even advantageous to know what it means. ” — Poincaré

The Trivial Notions Seminar
Proudly Announces

Pontrjagin classes and some homotopic
manifolds which are not diffeomorphic

A talk by
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Abstract

Pontrjagin classes are a useful invariant of real vector bundles. For a CW complex of $\dim \leq 4$, vector bundles are characterised by the Pontrjagin and the even Steifel Whitney classes. Using this we will see that there are many manifolds among sphere bundles over \mathbf{S}^4 which are homotopic but not diffeomorphic.

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