“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
Samik Basu

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 \( S^4 \) which are homotopic but not diffeomorphic.

Friday, March 7\textsuperscript{th}, 2008 at 2:37 pm
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