

On topological classification of 4-manifolds  
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The geometric classification techniques (surgery and s-cobordism conjectures) are known to hold for topological 4-manifolds with fundamental group of subexponential growth. This talk will describe a new proof of this result (joint work with F. Quinn), and some approaches to the conjecture for the free fundamental groups (in particular, in terms of involutions on 4-manifolds, and using gauge theory.)