



**Berlin
Mathematical
School**

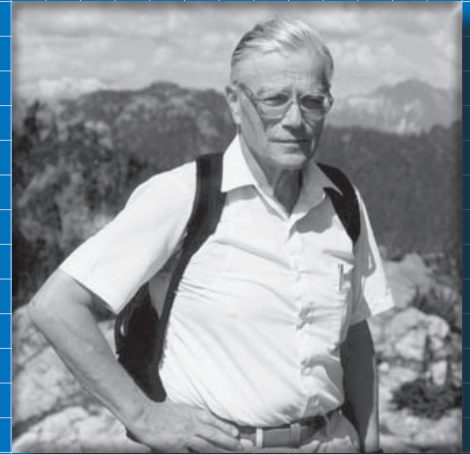
BMS Fridays Colloquium

Friday, 28 November 2008, 2:00 pm

Tea before the lecture starts at 1 pm

BMS Loft, Urania
An der Urania 17, 10787 Berlin

Wolfgang Lück (Münster):
"Topological Rigidity"



Armand Borel

The Borel Conjecture says that any homotopy equivalence between closed aspherical manifolds is homotopic to a homeomorphism. This implies in particular that two aspherical closed manifolds are homeomorphic if and only if their fundamental groups are isomorphic.

The talk will discuss and explain this conjecture and give a report about its current status: It is open in general but it has been proved if the fundamental group belongs to a certain class of groups which includes for instance hyperbolic groups (in the sense of Gromov).

