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Stefan. Maubach* (s.maubach@science.ru.nl), department of mathematics, Radboud University, Postbus 9010, 6500 GL Nijmegen, Nijmegen, Netherlands. *Rigid rings, almost-rigid rings, and infinitely generated invariants.*

In this talk I will show how to construct finitely generated algebras whose Derksen and Makar-Limanov invariants are infinitely generated. For this I need the concept of an (almost) rigid ring.

A rigid ring is a ring whose only locally nilpotent derivation is the zero derivation. An almost-rigid ring has essentially only one nonzero locally nilpotent derivation. (Received August 14, 2007)