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**Speaker:** Rui Loja Fernandes  
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Wednesday, April 9, 2014  
4:00 PM  
229 Hayes-Healy Hall

**Title:** Lie Theory beyond groups

**Abstract:**

In this lecture I will explain what Lie groupoids are, what they are good for, and some of the Lie theory that has been developed for these objects in the last 20 years.

In particular, I will try to explain two landmark results: Lie's Third Theorem for Lie algebroids/groupoids and the Linearization Theorem for proper Lie groupoids.