

# FIM

# Minicourse

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## Auslander-Reiten Theory for quiver-representations

May 3 - 17, 2011

Tuesdays 3.5., 10.5., 17.5. 09:00 - 10:00h

Thursdays 5.5., 12.5., 14:00 - 15:00h

Friday 6.5., 16:00 - 17:00h

HG G 43, ETH Zürich, Rämistrasse 101

### Abstract

We will review the basics of the Auslander-Reiten Theory, which gives structural insight in the module category of finite dimensional algebras. The contents of the 6 lectures of the minicourse are as follows:

1. Quivers and representations
2. The Auslander-Reiten quiver
3. The Auslander-Reiten transpose
4. Extension groups
5. The Auslander-Reiten Theorem
6. The Knitting technique

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