

MATH 507 SPRING 2007 COURSE OUTLINE

1. BASICS

Location: BH 204

Time: MWF 10:00-1:50

Text: Model Theory an Introduction, David Marker

Instructor: Alfred Dolich

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Office Hours: MWF 1-2 or by appointment.

This is a continuation of the previous semester's model theory course. The plan is to finish the content in Marker's book. The main topics covered will be indiscernibles and their application (in particular a basic "many models" theorem), ω -stable theories (included a proof of Morley's theorem on uncountably categorical theories), ω -stable groups (including group existence theorems), and the geometry of strongly minimal sets. Time permitting we may cover other topics depending on interest.

I will periodically give homework assignments (roughly every two weeks). There will be no midterm and no final.