

# Methods of Theoretical Physics II

## Physics 467-001 (30428)

Instructor: Kevin Cahill

This course is a continuation of 466. The subject matter will depend somewhat upon the needs and wants of the students and may include such topics as:

- dimensional and scale analysis
- linear algebra
- tensors
- groups and Lie algebras
- probability and statistics
- variational calculus
- non-linear systems, fractals, and chaos
- path integrals
- Monte Carlo methods
- game theory and mathematical finance.

Spring 2008, Mondays and Wednesdays, 3:30–4:45 PM  
Room 184 (P&A, Yale & Lomas).