

**Physics 7653: Statistical Physics**  
<http://www.physics.cornell.edu/sethna/teaching/653/>  
Material for Week 01  
Exercises due Tuesday Aug 29  
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### Pre-class Preparation

#### **Thursday**

Read: Chapter 12, Sec. 12.0 (Continuous Phase Transitions)  
Do (12.5) The Gutenberg-Richter Law; turn in Thursday.

#### **Tuesday**

Read: Chapter 12, Sec. 12.1 (Universality)  
Do (12.1) Renormalization-group trajectories; submit electronically by 9:30pm Monday  
Aug. 28.

### **Exercises**

12.10: Biggest of bunch: Gumbel

12.14: Conformal Invariance (Hints available at course Web site)