

### **III. INFORMATION-THEORETIC RECONSTRUCTION**

**(Putting I. Basics + II. Structures together)**

- 1. PREFACE: INFORMATION IN / ERROR OF MODELS**
- 2. TRANSMISSION & INFORMATION DISTANCE**
- 3. CALCULATING Q ALGEBRAICALLY**
- 4. CALCULATING Q MAXIMIZES ENTROPY SUBJECT TO CONSTRAINTS**
- 5. CALCULATING Q WITH IPF**
- 6. CHOOSING MODELS BASED ON INFORMATION CONTENT**
- 7. CHOOSING MODELS WITH AIC & BIC**
- 8. CHOOSING MODELS STATISTICALLY**

#### Exercises

Midterm 2016: 3

Midterm 2018: 2, 4, 5

Final 2016: 1cgh, 2f, 3abd

Final 2018: 1ce, 2ab, 3abcd

Final 2019: 2c, 3abde, 4ab