Suggested Topics

- 1. Supersymmetry: the suggested references are
 - Pokorski chapter 15;
 - G. Ross, "Grand Unified Theories", chapter 8.
- 2. Chiral Lagrangians: the suggested references are
 - Pokorski chapter 14;
 - Weinberg, chapter 19.
- 3. Solitons whose basic reference is
 - Coleman, "Aspects of Symmetry", chapter 6.
- 4. Instantons whose basic reference is
 - Coleman, "Aspects of Symmetry", chapter 7.
- 5. The 1/N approximation whose basic reference is
 - Coleman, "Aspects of Symmetry", chapter 8.
- 6. Axions and the strong CP problem: the suggested references are
 - Weinberg section 23.6;
 - Donoghue, Golowich and Holstein, "Dynamics of the Standard Model", chapter 3.
- 7. Field Theory at Finite Temperature and Phase Transitions: the basic reference is
 - Rivers, "Path Integral methods in QFT", chapter 14.
- 8. RGE and Critical Phenomena: the suggested references are
 - Peskin and Schroeder chapter 13;
 - E. Brézin in the proceedings of the 1975 Les Houches School.