# STATISTICAL MECHANICS AND FIELD THEORY

*INFORMAL MEETING*
*INIZIATIVA SPECIFICA INFN FIRENZE 11*

*Organizers: A. Cappelli, N. Magnoli, G. Mussardo*

## Monday 16 December: Theory Seminar Room no. 281

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|---|---|---|---|
| 9.30 | 10.15 | **A. Lerda (To)**: | *Supersymmetric Gauge Theories from Branes* |
| 10.15 | 11 | **M. Zabzine (Fi)**: | *Poisson Geometry of Sigma Models with Extended Supersymmetry* |
| 11 | 11.30 | Coffee Break | |
| 11.30 | 12.15 | **A. Cappelli (Fi)**: | *Boundary Conformal Field Theory: an Overview* |
| 12.15 | 13 | **R. Guida (Saclay)**: | *QFT Approach to 3D Critical Phenomena: an Introductory Review* |
| 13 | 14.30 | Lunch | |
| 14.30 | 15.15 | **P. Sodano (Pg)**: | *Networks of Quantum Josephson Junctions* |
| 15.15 | 16 | **A. Braggio (Ge)**: | *Luttinger Liquid: from Theory to Real World* |
| 16 | 16.30 | Coffee Break | |
| 16.30 | 17.15 | **M. Merlo (Ge)**: | *Spin-pairing Instabilities in the Half-filled Landau Level of Composite Fermions* |
| 17.15 | 18 | **V. Marotta (Na)**: | *Twisted CFT and the Bilayer Quantum Hall System* |

## Tuesday 17 December: Theory Seminar Room no. 281

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|---|---|---|---|
| 9.30 | 10.15 | **A. Delfino (Ts)**: | *Correlation Functions of Disorder Operators* |
| 10.15 | 11 | **P. Mosconi (Ts)**: | *QFT with a Defect Line* |
| 11 | 11.30 | Coffee Break | |
| 11.30 | 12.15 | **A. Rago (To)**: | *Study of the 2D Ising Model with Mixed Perturbation* |
| 12.15 | 13 | **P. Solinas (Ge)**: | *Quantum Computation and Holonomic Logic Gates in Semiconductors* |