

## The quantum N-body problem and the auxiliary field method

*jeudi 7 avril 2011 11:30 (25 minutes)*

Approximate analytical energy formulas for N-body semirelativistic Hamiltonians with one- and two-body interactions are obtained within the framework of the auxiliary field method. We first review the method in the case of nonrelativistic two-body problems. A general procedure is then given for N-body systems and applied to the case of baryons in the large- $N_c$  limit.

**Auteur principal:** Dr SEMAY, Claude (University of Mons)

**Orateur:** Dr SEMAY, Claude (University of Mons)

**Classification de Session:** QCD