

**SEMINARIO**  
**Departamentos de Física Teórica I y II**  
**Universidad Complutense de Madrid**

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**TITULO:** QFT covariant few-body equations with explicit account for pair annihilation

**LUGAR:** FACULTAD DE CIENCIAS FÍSICAS UCM

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**ABSTRACT**

The main tool of so called "continuum QFT" approach are covariant equations which allow to sum non-perturbatively physically important infinite series of Feynman diagrams. In the case of four quark system one already faces overcounting problem due to the fact that there is no "time ordering" in the Feynmann diagram rules. The overcounting problem is way more severe if pair annihilation is needed to be taken into account explicitly (e.g. in the case of two quarks and two antiquarks). The talk is about solution of this problem and reduction of the equations to a physically transparent form.