

# De *Madrid* al *Cosmos*

Hamiltonian formulation of  
parametrized field theories:  
incorporating boundaries and gauge symmetries

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Sala de Conferencias  
CFMAC-CSIC (Serrano, 121)

**Abstract:** Parametrized field theories have been used as a test bed for polymer quantization techniques in Loop Quantum Gravity. In this talk I will review the Hamiltonian formulation for singular (constrained) systems and discuss several issues that play a relevant role in the Hamiltonian description of parametrized models when boundaries and internal gauge symmetries are present. For concreteness I will concentrate on the discussion of the scalar field subject to several types of boundary conditions and electromagnetism.

Ciclo de seminarios organizado conjuntamente por los grupos

- *Teorías Efectivas en Física Moderna* (UCM)
- *Gravitación y Cosmología* (IEM-CSIC)

Página web: <http://loops11.iem.csic.es/madrid-cosmos>



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