

**UFSCar**

**DEPARTAMENTO DE MATEMÁTICA**

**COLÓQUIO**

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**Falará sobre:**

**A Schrödinger-Poisson system:  
Physical and Mathematical background**

**Resumo.**

We study formally some properties of the Schrödinger-Maxwell system which, under the ansatz of standing wave solutions in the purely electrostatic case, reduce to the Schrödinger-Poisson system. It is a system of two elliptic PDEs. We present also some basic tools of Critical Point Theory that will be used to find solutions of the problem under study.

*DATA: Terça-feira 22/11/2011    HORÁRIO: 16:00*  
*LOCAL: Sala 20 do DM-UFSCar*