

Dirac's Class Two problems and recent developments in external field QED

Monday, 23 March 2015 16:30 (45 minutes)

To date classical and quantum electrodynamics is missing a well-defined equation of motion. I will give a brief overview of the main obstacles and report on recent developments to overcome one of those in the model of external field QED. In particular, I will discuss how an evolution for the Dirac sea subject to an external electromagnetic four-potential can be constructed that is free of singularities.

Presenter: DECKERT, Dirk (LMU Munich)

Session Classification: Mathematical Physics & QFT