



Contribution ID : 108

Type : **not specified**

## The effective action in Einstein-Maxwell theory

*Thursday, 9 October 2008 18:30 (0:50)*

### Abstract content

Considerable work has been done on the one-loop effective action in combined electromagnetic and gravitational fields, particularly as a tool for determining the properties of light propagation in curved space. After a short review of previous work, I will present some recent results obtained using the worldline formalism. In particular, I will discuss various ways of generalizing the QED Euler-Heisenberg Lagrangians to the Einstein-Maxwell case.

### Summary

**Primary author(s) :** SCHUBERT, Christian (IFM-UMSNH)

**Presenter(s) :** SCHUBERT, Christian (IFM-UMSNH)

**Session Classification :** Non-Perturbative QFT