SEMPARIS – Séminaires en région parisienne

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Seminaire exceptionnel

Mercredi 27 Novembre 2019, 11 :30
LPTENS, Scherk library (formerly LPTENS library)
Domaines : gr-qc

Titre : *Hawking evaporation and the information loss paradox*

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Résumé : *Forty years after the discovery of Hawking radiation, its exact nature remains elusive. If Hawking radiation does not carry any information out from the ever- shrinking black hole, it seems that unitarity is violated once the black hole completely evaporates. On the other hand, attempts to recover information via quantum entanglement lead to the firewall controversy. In this talk we review the essence of the information paradox. We then discuss several selected proposed solutions to it and provide some of their counter-arguments. We end the talk by introducing an analog black hole experiment with flying plasma mirror.*
