

## **Non-explosion criteria for relativistic diffusions**

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Place **Campus Kirchberg, room B02**

Relativistic diffusions live on the unit tangent bundle of a given Lorentz manifold, and have their law invariant with respect to the isometries of this Lorentz manifold. In the Riemannian setting a big amount of work has been made to find out nice conditions ensuring the non-explosion of Brownian motion, that is, the so-called stochastic completeness. The aim is here to provide analogous criteria in the Lorentzian case, which is really more difficult to handle.