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## **Mathematical Physics**

## A probabilistic view on the general relativistic Boltzmann equation

Ismael Bailleul, Frabrice Debbasch

(Submitted on 4 Jul 2011)

A new probalistic approach to general relativistic kinetic theory is proposed. The general relativistic Boltzmann equation is linked to a new Markov process in a completely intrinsic way. This treatment is then used to prove the causal character of the relativistic Boltzmann model.

Comments: 12 pages

**Mathematical Physics (math-ph)**; Probability (math.PR) Subjects:

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