

Gravity, hyperbolic billiards and Lorentzian Kac-Moody algebras

M. Henneaux*

*Physique Théorique et Mathématique, Université Libre de Bruxelles
C.P. 231, B-1050, Bruxelles, Belgium*

ABSTRACT

Lorentzian Kac-Moody algebras control the asymptotic dynamics of gravitational theories in the vicinity of a cosmological singularity. The list of the Lorentzian Kac-Moody algebras that have already been encountered in this context is explicitly given.

* Centro de Estudios Científicos, Casilla 1469, Valdivia, Chile.