Global properties of solutions to the Einstein-Boltzmann system with Bianchi I symmetry

Ho Lee

Kyung Hee University (holee@khu.ac.kr)

We consider the Cauchy problem of the Einstein-Boltzmann system with Bianchi I symmetry. Initial data is assumed to be small in the sense that the universe is homogeneous and almost isotropic. To obtain global existence an appropriate restriction is imposed on the scattering kernel. In the end, we obtain asymptotic behaviours of metric, Hubble variable, distribution function, energy-momentum tensor, and so on.