

Abstract

An introduction to relativistic cosmology with extra dimensions is given. The typical action based on higher dimensional general relativity is broken down to general relativity in 3+1 dimensions plus scalar fields from extra dimensions. The methods are essential e.g. when taking the low-energy limit of string theory in such a manner that the weak gravitational interaction results in the correct Newton constant. Some exact solutions with intersecting p-branes will be discussed. An interesting feature is that certain intersecting p-branes affect the Hawking temperature of black holes only via their intersection dimension