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Geometry and Dynamics

The further out we look into the universe, the simpler it seems to get (see Fig. 1.1). Averaged over large scales, the clumpy distribution of galaxies becomes *homogeneous* and *isotropic*, i.e. independent of position and direction. As we will see, in §1.1, homogeneity and isotropy single out a unique form of the spacetime geometry of the universe. We will discuss how particles and light propagate in this spacetime in §1.2. Finally, in §1.3, we will show how the equations of general relativity relate the rate of expansion of the universe to its matter content.

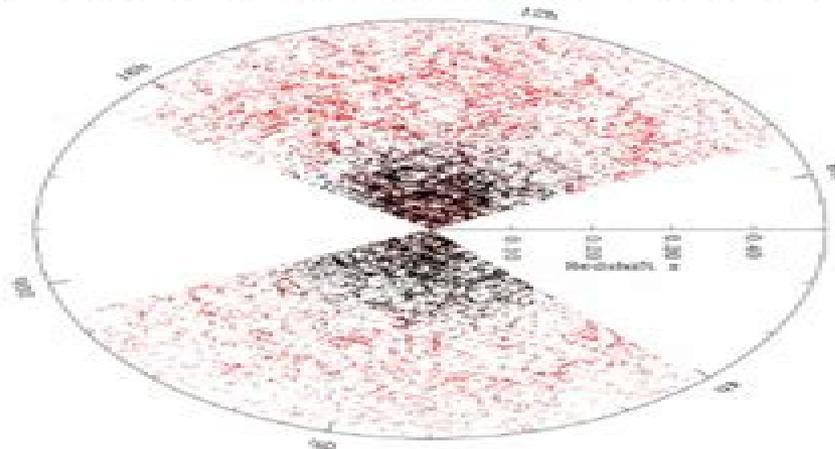


Figure 1.1: The distribution of galaxies is clumpy on small scales, but becomes more uniform on large scales and at early times.

1.1 Geometry

1.1.1 Metric

I am assuming you have seen a *metric* before. (Otherwise, we will be in trouble.) Just to remind you, the metric is an object that turns coordinate distances into physical distances. For example, in three-dimensional Euclidean space, the physical distance between two points separated by the infinitesimal coordinate distances dx , dy and dz is

$$d\ell^2 = dx^2 + dy^2 + dz^2 = \sum_{i,j=1}^3 \delta_{ij} dx^i dx^j, \quad (1.1.1)$$

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Jin-Ying Zhang



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