

2

Special relativistic hydrodynamics

2.1 Perfect fluid energy momentum tensor

It is easiest to begin a study of general relativistic hydrodynamics with a discussion of special relativistic hydrodynamics in flat space. A good starting point for any hydrodynamic discussion is the energy momentum tensor. Many astrophysical and cosmological models make use of the hydrodynamics of a perfect fluid. A perfect fluid is simply one in which the velocity field at each point is such that an observer moving with this velocity sees the fluid as isotropic and nonviscous on a small enough local scale. Although we begin our discussion with a perfect fluid, we will add imperfections (viscosity, heat flow, etc.) later.

The stress tensor in Newtonian fluids is a measure of the momentum flux. In relativity (both special and general) one desires a generalization to a measure of not only momentum flux density, but also energy flux density and energy density as observed in different reference frames. In special relativity it is easy to find the form of the energy momentum tensor. Consider a pressureless cloud consisting of a local number density of n particles per unit volume with a rest mass of m_0 each. An observer in an arbitrary frame then measures a fluid mass energy density,

$$\text{mass energy density} = \sum_N \frac{nm_0}{(1-v^2)}. \quad (2.1)$$

where one factor of $1/\sqrt{1-v^2}$ arises from length contraction and another factor from the mass energy. In special relativity, this quantity represents the flux of mass energy across a $t = \text{constant}$ surface. The energy flux density across a spatial surface is the amount of energy transported in various directions as seen by the observer,

$$(\text{energy flux density})_i = (\text{momentum density})_i = \sum_N \frac{nm_0 v^i}{(1-v^2)}. \quad (2.2)$$

Relativistic Numerical Hydrodynamics

Mark Steyvers



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