

Important topics 2

Minkowski diagram

4-acceleration

Geodesic equation

Acceleration of gravity

Constants of motion

Perfect fluid

Conservation laws

Newtonian limit

Reference frame

Co-moving coordinates

Kinematical and gravitational time dilation

Coordinate transformations

The spacetime line-element

Expanding universe model

Cosmic redshift

The Hubble parameter and the deceleration parameter

The Friedmann equations