

# General Relativity: Robertson Solutions



Starting from the most general spherically symmetric solution to the Einstein field equations, we will derive the Robertson-Walker metric. This metric is the most general metric for a homogeneous and isotropic universe. It is the basis for the Friedmann-Lemaître-Robertson-Walker (FLRW) model of the universe.

We will then discuss the implications of this metric for the expansion of the universe, the Big Bang, and the future of the universe. We will also discuss the role of dark matter and dark energy in the expansion of the universe.

**Robertson-Walker Metric**  
The Robertson-Walker metric is a spherically symmetric metric that describes a homogeneous and isotropic universe. It is the most general metric for a homogeneous and isotropic universe. The metric is given by:  
$$ds^2 = -c^2 dt^2 + a(t)^2 \left[ \frac{dr^2}{1 - kr^2} + r^2 d\Omega^2 \right]$$
  
where  $a(t)$  is the scale factor,  $r$  is the radial coordinate,  $k$  is the curvature constant, and  $d\Omega^2$  is the metric on a 2-sphere. The metric is spherically symmetric and homogeneous. The scale factor  $a(t)$  describes the expansion of the universe. The curvature constant  $k$  can be positive, zero, or negative, corresponding to spherical, flat, or hyperbolic geometry, respectively.

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