**General Relativity**

**Spacetime Metric**

**Time-like Geodesics**

**Null Geodesics**

**Newtonian Limit**

**Particle Action**

**Particle Lagrangian**

**Particle Hamiltonian**

**Einstein Field Equations**

**Vacuum Field Equations**

**Einstein-Hilbert Action**

**Weak Field Approximation**

**Gravitational Waves**

**Electromagnetic Stress-Energy Tensor**