

### ***Geodesics in general relativity - Gilbert Weinstein***

Geodesics in general relativity describe the trajectory of both material particles and light rays. Many interesting physical phenomena are exhibited by geodesics in various spacetimes. In this project, these phenomena will be explored starting with the first three tests of general relativity in the Schwarzschild solution, continuing with the discovery of black holes by Oppenheimer and Snyder, all the way to the integration of the geodesic equations in the Kerr solution.