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made by Professor Igor Klebanov at Princeton University during his semester course on General Relativity during the fall of 2006. The course began relatively slowly, and picked up pace toward the end. The homeworks reflect this.

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<p>This problem is closely linked to the problem of possible violations of causality in the processes involving elementary particles (violations of micro-causality, as they are sometimes called), to some other problems of microphysics, and to the problem of singularities in the general relativity theory and cosmology



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(see Section 19). [47], The core concept of general-relativistic ...

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[[https://en.wikipedia.org/wiki/Dark\\_energy](https://en.wikipedia.org/wiki/Dark_energy)]. process through numerous experiments(Gravitational time dilation and frequency shift, Precession of apsides, from its own problem of general relativity or is required from newly found

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observ, there are three big problems with respect to general relativity, 1) Problems of integration with quantum mec, 2) The theory includes the existence of singularity. .

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complementary ways to use general relativity: One can fix the form of the stress-energy tensor (from some physical reasons, say) and study the solutions of the Einstein equations with such right hand side (for example, if the stress-energy tensor is chosen to be that of the perfect fluid, a spherically symmetric solution can serve as a stellar

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relativity is the determination of the  
motion and gravitational field of two

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bodies as described by the field equations of general relativity. Solving the Kepler problem is essential to calculate the bending of light by gravity and the motion of a planet orbiting its sun. Solutions are also used to describe the motion of binary stars around each other, and estimate their gradual loss of energy through gravitational radiation.

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(22.62) gives the differential equation describing geodesics in curved space, it is a long way from that equation to its

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explicit solution for significant problems in general relativity. The exploration of such solutions is a topic of current research and beyond the scope of the present text.

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