CHAPTER 25: RELATIVISTIC STARS AND BLACK HOLES

Reading:
   Chapter 25 of Blandford & Thorne.
TA:
   This problem set will probably be graded by Xinkai Wu.

Problems

Work four of the following eight problems. Pick problems that are appropriate for *you*—not too easy; not too hard.

   Exercise 25.1 Connection Coefficients and Riemann in Schwarzschild
   Exercise 25.2 The Bertotti-Robinson Solution
   Exercise 25.3 Schwarzschild Geometry in Isotropic Coordinates
   Exercise 25.5 Gravitational Redshift
   Exercise 25.7 Implosion of the Surface of a Zero-Pressure Star
   Exercise 25.8 Gore at the Singularity
   Exercise 25.9 Wormholes
   Exercise 25.10 Slices of Simultaneity in Schwarzschild Spacetime