

Potential Relativity Projects

- The Twin Paradox
- Applications of Special Relativity in Accelerator Physics
- The Physics of Interstellar
- Relativistic Time Dilation...Flying at speeds close to c
- Relativistic Time Dilation...Flying near a black hole
- Relativity and the Global Positioning System
- Falling into a Black Hole
- Wormholes
- Energy requirements for assorted objects to reach relativistic speeds
- Gravitational Lensing
- Gravitational Waves
- Comparison of the gravitational redshift of assorted compact objects: planets, stars, white dwarf stars, neutron stars and black holes
- Supermassive black holes and the evidence for them
- Experimental verifications of Special Relativity
- The Michaelson-Morley Experiment...details of the experiment and results
- Beyond General Relativity: Quantum Gravity
- Travel time to assorted celestial bodies at assorted relativistic velocities
- Kerr Black Holes
- Can the CERN LHC create a microscopic black hole and what would happen if it did?
- Hawking Radiation