

Abstract Submitted  
for the TS4CF08 Meeting of  
The American Physical Society

**Chaos in General Relativity: Spinning Particles around Black Holes** CHRIS VERHAAREN — We consider the possibility of chaotic particle orbits in General Relativity. We discuss some of the difficulties in quantifying chaos in General Relativity. In particular, we solve the Papapetrou equations for spinning particles in the background of a black hole and compare our results with the non-spinning case.

Chris Verhaaren

Date submitted: 10 Sep 2008

Electronic form version 1.4