

Title: Some Curvature Computations for the Strong Force N-Body Problem.

Abstract: The Jacobi-Maupertuis principle reparametrizes dynamics at a fixed energy level into the geodesic flow of a certain metric. Montgomery showed that for the strong force 3-body problem this geodesic flow is hyperbolic which led to nice dynamical consequences. This talk will be about the attempt to generalize Montgomery's results to  $N \geq 3$ .