

Abstract Submitted  
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**Statistical Studies of Post Newtonian Equations** FRANK HERMANN, CHAD GALLEY, University of Maryland, GUSTAVO GUERBEROFF, Universidad de la Republica, Montevideo. Uruguay, JOHN SILBERHOLZ, University of Maryland, MANUEL TIGLIO — We report on a statistical study of Post-Newtonian equations which we performed using Graphics Processing Units (GPUs). We find a number of interesting structures in the inspiral parameter space. The use of GPUs can provide a significant speed improvement over traditional CPU based approaches and can be efficiently utilized to study GR with its typically arithmetically intensive computations.

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