PROCEEDINGS OF SCIENCE

Foreword

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29th Johns Hopkins Workshop on current problems in particle theory: Strong matter in the Heavens
1-3 August, 2005
Budapest, Hungary

 http://pos.sissa.it/

PoS(JHW2005)033

The twenty-ninth Johns Hopkins Workshop on Current Problems in Particle Theory was held in Budapest, Hungary from the 1st thru the 3rd of August, 2005, on the campus of the Science Faculty of Eötvös University. This workshop was jointly organized and cosponsored by the Institute of Physics, Eötvös Loránd University and the Hungarian Academy of Sciences *via* the direct support given to International Workshops in Theoretical Physics organized in Hungary. The Johns Hopkins University has continued its generous financial support.

The title of the workshop was: *Strong Matter in the Heavens*. The aim was to bring together a series of review talks and also some hot new results on the collective behavior of strongly interacting matter with relevant applications to cosmology, cosmic rays and the structure of compact, high density stellar objects. Increasingly accurate observational results in astrophysics open wide range of prospective applications of theoretical results obtained both in equilibrium and far from it, and at high temperatures/low densities or low temperatures/high densities.

The state of the art in this field, as summarized at the workshop, reflects the increasing activity induced by experimental advances in high energy heavy ion collisions.

It is our pleasure to thank Dean Eaton E. Lattman for his support of the Johns Hopkins Workshops. Thanks are due to the staff of the Proceedings of Science (PoS) for their very competent work in producing these Proceedings and particularly to Amanda de Felice for her excellent editorial work.

The Organizing Committee