

Challenging Einstein's Theory of General Relativity by Gravitational Waves with Advanced Computing Technologies

Thursday, 22 March 2018 09:45 (45 minutes)

The recent historic discovery of Gravitational Waves (GW) by LIGO won the Nobel Prize in physics in 2017 and opened a new era of GW astronomy. After about 100 years since the completion of General Relativity by Einstein, for the first time we can test this theory at extreme gravity conditions by using GW signals. The advanced computing technologies such as GRID and GPU play important roles to achieve these goals. The summary of world-wide GW detection network and data analysis approaches will be discussed.

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Session Classification: Keynote Session