

Colloquium

Einstein's messengers

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Recent gravitational-wave observations by LIGO and Virgo not only confirm the century-old prediction of Einstein, but also herald the beginning of a new branch of astronomy. While the binary black hole observations allow us to test the predictions of Einsteins theory in the regime of extreme gravity and to study the physics and astrophysics of black holes, the binary neutron star observation has announced the dawn of multimessenger astronomy. Based on the observed rate of these events, we expect a large number of binary mergers to be observed in the near future, along with other possible sources. This talk will summarize the current status of gravitational-wave observations, what we learned from them, and prospects for the near future.

Friday, Nov 9th 2018

11:30 AM (Tea/Coffee at 11:00 AM)

Auditorium, TIFR-H