ICTS DISTINGUISHED LECTURE



TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Solving the two-body problem in General Relativity has been crucial in observing gravitational waves from binary systems composed of black holes and neutron stars, and inferring their astrophysical and cosmological properties. I will review the theoretical groundwork that has enabled these major scientific discoveries.

Alessandra Buonanno

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Alessandra Buonanno studied physics in Pisa, where she also earned her doctorate in 1996. She subsequently worked at CERN, at the CNRS and the Institut des Hautes Etudes Scientifiques in Paris, and at the California Institute of Technology. In 2005 she became an Associate Professor at the University of Maryland, where she has held a full professorship since 2010. Since 2014 she has been director of the Max Planck Institute for Gravitational Physics in Potsdam, and in 2017 she was made an honorary professor at the Humboldt University of Berlin and the University of Potsdam. Buonanno has won numerous awards, including the State Prize of Lower Saxony in 2016, which she shared with Bruce Allen and Karsten Danzmann, and the 2018 Leibniz prize - the most prestigious research prize in Germany awarded by the

German National Science Foundation (DFG)

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