

CDISE Seminar LIGO SEARCH ALGORITHMS THAT DETECTED GRAVITATIONAL WAVES FROM THE MERGER OF BINARY OBJECTS

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ABSTRACT

There have been discoveries of gravitational waves from the collisions of several binary black holes and from a collision of binary neutron star, observed by Laser Interferometer Gravitational-wave Observatory. There are dedicated algorithms with complementary approach that are deployed for such detections. In this talk Satya Mohapatra will give a quick review of such algorithms, while describing the necessary computing that goes for it, and then will give an outline of some future developments.

Short BIO

Satya Mohapatra did his PhD at University of Massachusetts - Amherst specializing on gravitational-wave data analysis. He was a postdoc at Syracuse University and Rochester Institute of Technology. Currently he is a technical staff at LIGO Laboratory, MIT. His main research focus includes search algorithms for detecting gravitational-waves from merger of compact binary and LIGO computing infrastructure.

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