

VII Leopoldo García-Colín Mexican Meeting on Mathematical and Experimental Physics



Contribution ID: 15

Type: **not specified**

MARIO C. DÍAZ: How heavy are stellar mass black holes?

Thursday, 20 February 2020 11:30 (1 hour)

Very soon the gravitational wave ground based detectors will hit the 50 binary Black Hole mergers detection milestone. This means that in less than five years, our knowledge about the existence of BHs have increased fivefold compared to what we have learned in the previous 40 years before the first gravitational wave detection.

What have we learned from gravitational wave astronomy about their masses? How is this knowledge constraining stellar evolution and what we know about it?

In this talk I will present a review of the detections (and detection candidates -alerts-) made by gravitational wave detectors, compare it with our knowledge from electromagnetic astronomy and discuss the implications for theories of stellar evolution.

Session Classification: PLENARY TALKS

Track Classification: SYMPOSIUM ON BLACK HOLES AND GRAVITATIONAL WAVES