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Probing beyond standard model physics from gravitational waves

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The orbital period loss of Hulse-Taylor binary system was the first indirect evidence of gravitational wave (GW) which confirms Einstein's general theory of relativity to a very good extent. However the uncertainty in the measurement of GW from observation and GR prediction allows us to probe physics beyond the standard picture. In this talk I will discuss about probing beyond standard model physics from GW observation and some other astrophysical phenomena.

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