



Precession of Mercury's perihelion



Gravitational wave astronomy

Standard model

Newtonian Gravity

General Relativity

Theory

Celestial mechanics develop to extent that **detailed** orbital modeling could be made

Accurate GW source/propagation modeling

Experiment/ observations

Accurate (and **time** accumulating) data for **unexpected** additional precession rate.

Large number of events and/or highly **sensitive** GW detectors. Something **unexpected** in the future?