

Detection and Localization of Gravitational Wave Transients: The Early Years

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The Advanced LIGO and Virgo gravitational wave interferometers are expected to begin science operations in the second half of this decade. Based on the predicated rates for compact binary mergers and the strain sensitivity, the Advanced LIGO / Virgo network is expected to make the first direct observations of gravitational waves. In addition, some sources of gravitational radiation are expected to produce signatures in the electromagnetic spectrum as well, including optical, x-ray and radio wavelengths. Simultaneous measurements of gravitational and electromagnetic radiation could provide a powerful new probe for astronomy. In this presentation, I'll describe the projected schedule, sensitivity and sky localization accuracy of the Advanced detector network.

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