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## The multimessenger astrophysics of massive black holes

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The joint detection of gravitational waves and an electromagnetic counterpart from a neutron star merger in 2017 has been a major breakthrough in astrophysics. Massive black holes,  $10^4$ - $10^{10}$   $M_{\text{sun}}$ , which power quasar and inhabit the center of most galaxies, are also expected to merge and be very strong gravitational wave emitters, with various electromagnetic signatures accompanying the inspiral and merger of the two black holes. I will discuss theoretical models of merging massive black holes and their properties

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