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PyCBC Live: a realtime search for compact binary mergers in the advanced detector era

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PyCBC Live is a low-latency search for compact binary mergers based on frequency-domain matched filtering. It has been used during the second and third observing runs of Advanced Virgo and LIGO, together with other low-latency analyses, to generate rapid alerts from the gravitational- wave strain data. I will describe the basic operating principles behind PyCBC Live, the improvements made before and during the third observing run of Advanced Virgo and LIGO, and some recent developments towards achieving premerger alerts for binary neutron star systems.

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