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## **Listening to the gravitational wave universe with Advanced LIGO**

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The detection of gravitational waves from binary black hole coalescence and merger was a major highlight of Advanced LIGO's first observing run (O1). These detections of gravitational wave heralded the dawn of gravitational wave astronomy. The Advanced LIGO detectors, though significantly more sensitive than any other gravitational wave detector before, were not operating at design sensitivity in O1 and there have been significant efforts to improve Advanced LIGO sensitivity for the second observing run (O2). This talk will give highlights of LIGO observations from O1 and present ongoing efforts to improve the Advanced LIGO detectors.

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