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Abstract for an Invited Paper
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Terrestrial Gravitational-Wave Detector Arrays in the 21st Century¹

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The early observation runs of the two Advanced LIGO interferometers mark the beginning of gravitational-wave astronomy. The extent to which this new branch of astronomy can bloom depends solely on the quality and number of available detectors. I will outline the plans of LIGO and its partners VIRGO and KAGRA for achieving design sensitivity and upgrading the detectors. Furthermore I will explore the options for future gravitational-wave detector arrays, a generation of detectors that can provide the backbone infrastructure for gravitational-wave astronomy for the rest of the 21st century.

¹for the LIGO/VIRGO collaboration