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Advanced detectors of gravitational waves: status and perspectives

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After the first direct detection of gravitational wave we entered in the new era of gravitational wave astronomy. New kind of sources are expected to be found, and the future steps toward improved detectors' sensitivities will allow to extract physical information in a more and more accurate way.

I describe the status of current network of detectors, the more important sources of noise that limit the sensitivity and the proposals to overcome them.

Finally I will discuss foreseen future improvements, next generation detectors and perspectives.

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