Gravitational Waves Over the Next 40 Years

Advanced detectors

- What do we expect to see at design sensitivity?
- What do we get from addition of LIGO India and Kagra?

3G detectors

- Why do we need bigger detectors?
- Proposed detector designs
 - Cosmic Explorer
 - Einstein Telescope

Laser Interferometer Space Antenna

- Why does LISA see different sources than LIGO?
- The success of LISA pathfinder
- Planned mission: opportunities and challenges

Pulsar Timing Arrays

What types of sources will PTAs see?

Suggested Reading

Cosmic Explorer
Einstein Telescope
LISA
Pulsar Timing Arrays
https://lisa.nasa.gov
http://nanograv.org