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## The Discovery of a Lifetime: Gravitational-Waves

Maria I Dominguez Barraza

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# The Discovery of a Lifetime: Gravitational-Waves

Maria I Dominguez Barraza

Nebraska College Preparatory Academy

Grand Island Senior High School 2019

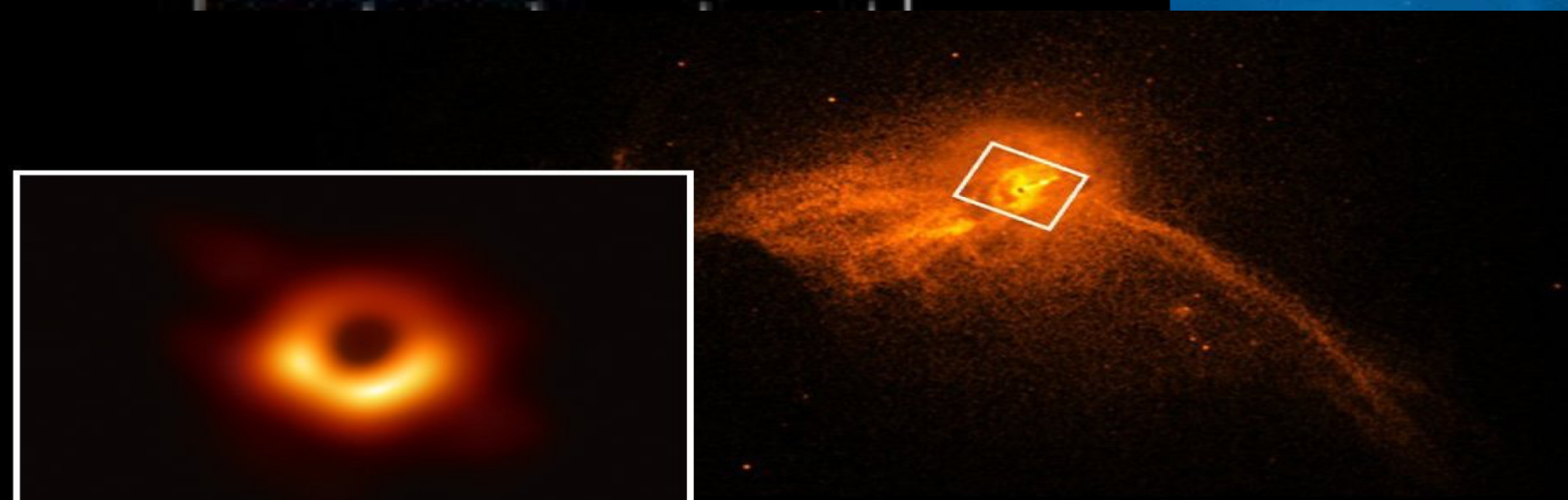
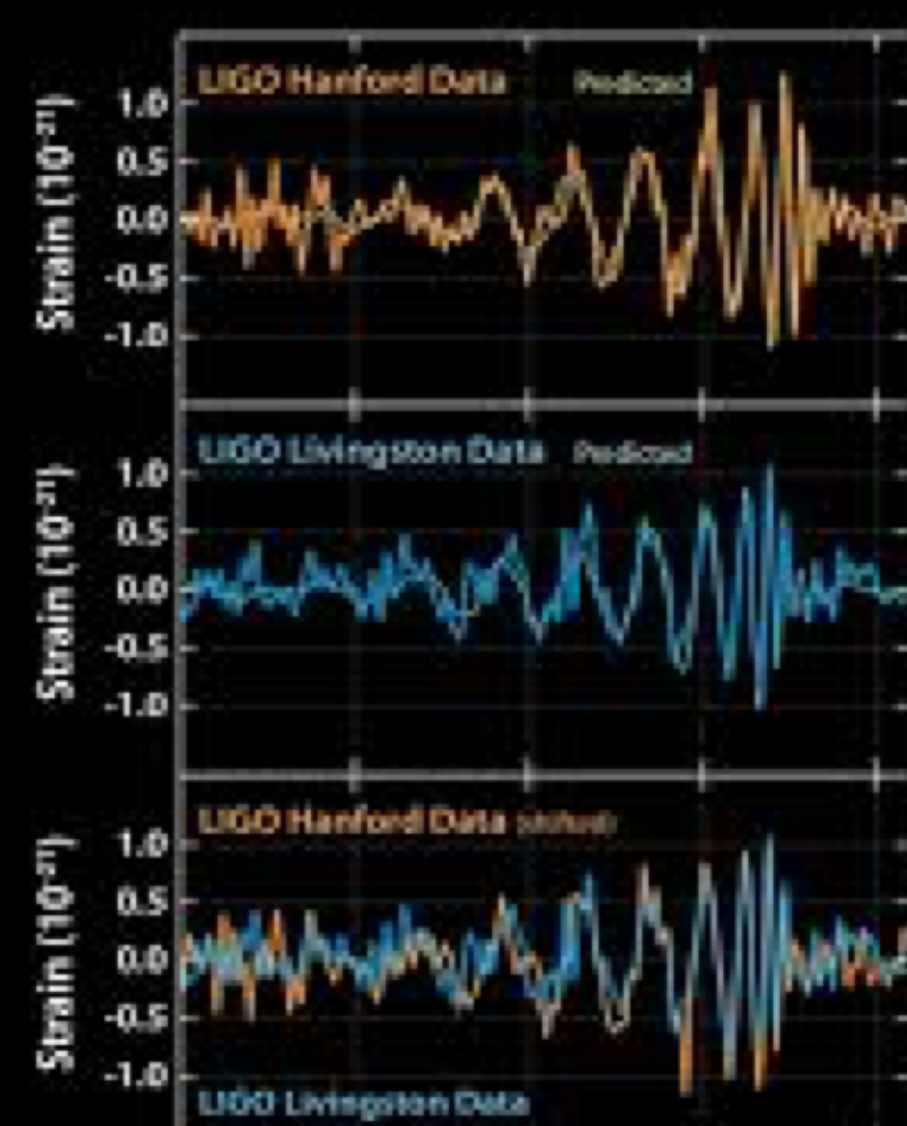
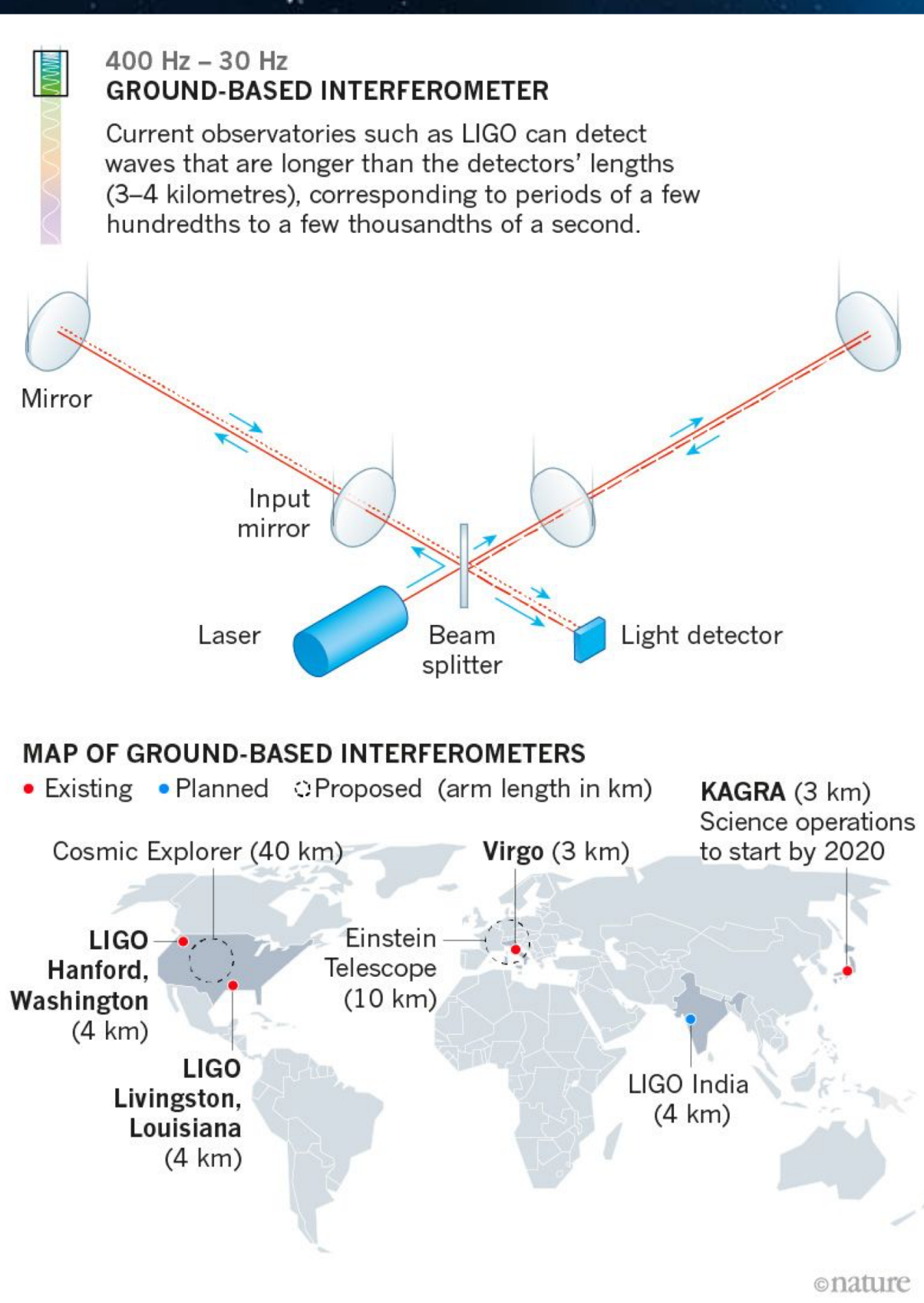
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## Abstract

This presentation offers an insight to one of the biggest discoveries made in science. The discovery of gravitational-waves had been a long journey to achieve for physicists and scientist. Now gravitational-waves are helping scientists study the universe in a more efficient way never seen before. The discovery of gravitational-waves is a sign that a new era of astronomy and physics is about to open doors for many scientists and astrophysicists.

## Key Points

- Gravitational-waves are energy-carrying waves propagating through a gravitational field, produced when a massive body is accelerated or otherwise disturbed.
- Gravitational-waves prove the existence of Black Holes.
- Laser Interferometer Gravitational-wave Observatories (LIGO), the detectors that can detect these ripples of spacetime.
- Laser Interferometer Space Antenna, the detector that will be sent up to space to detect gravitational-waves.



## Conclusion

Gravitational-waves have set scientist on a mission to continue to catch black holes in order to learn more about the secrets they hide, and most importantly take us all back to the beginning, The Big Bang.

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