

# The Nobel Prize in Physics 2017 *Gravitational Waves*



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**Rainer Weiss**

Prize share: 1/2



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**Barry C. Barish**

Prize share: 1/4



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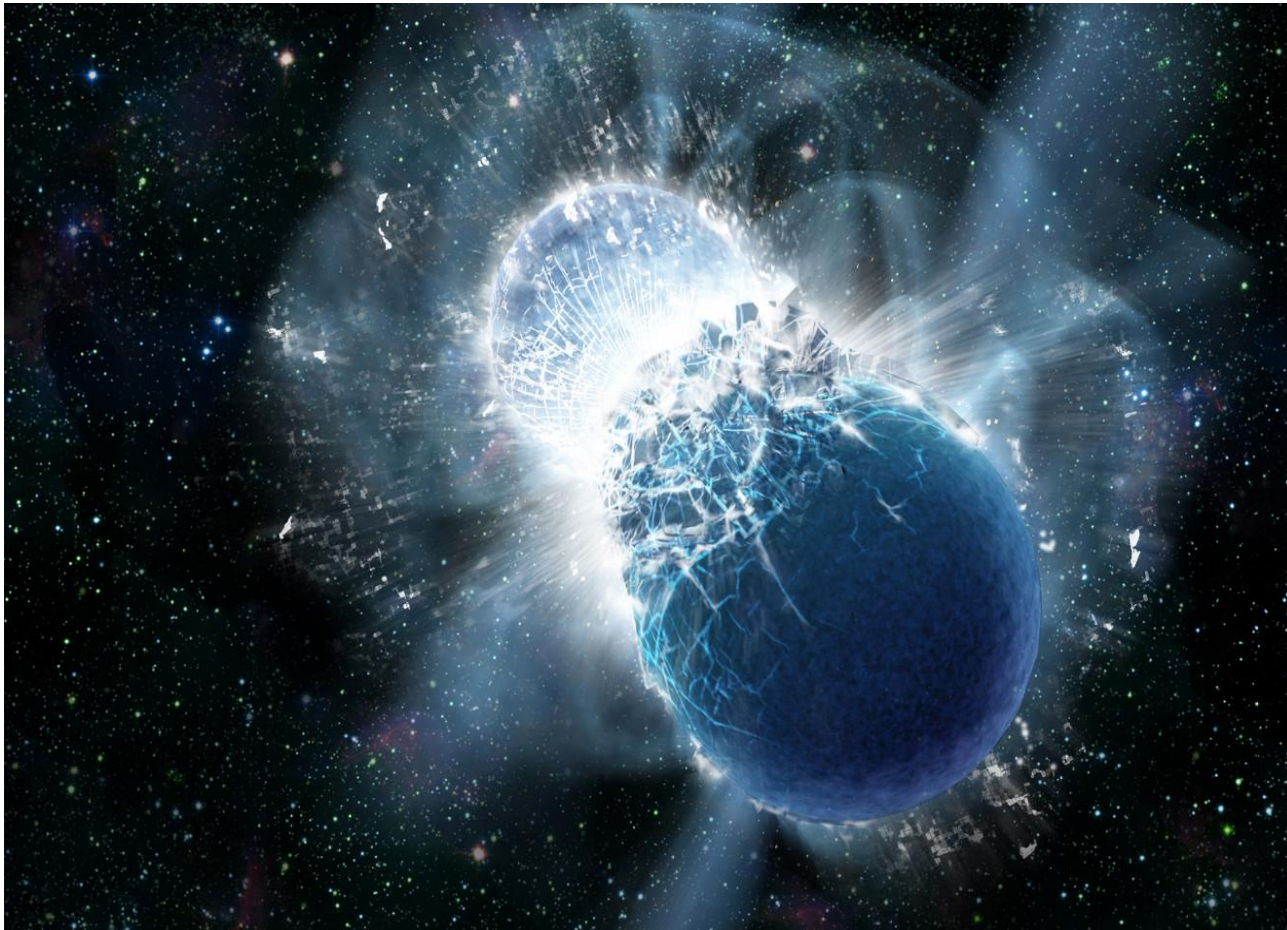
**Kip S. Thorne**

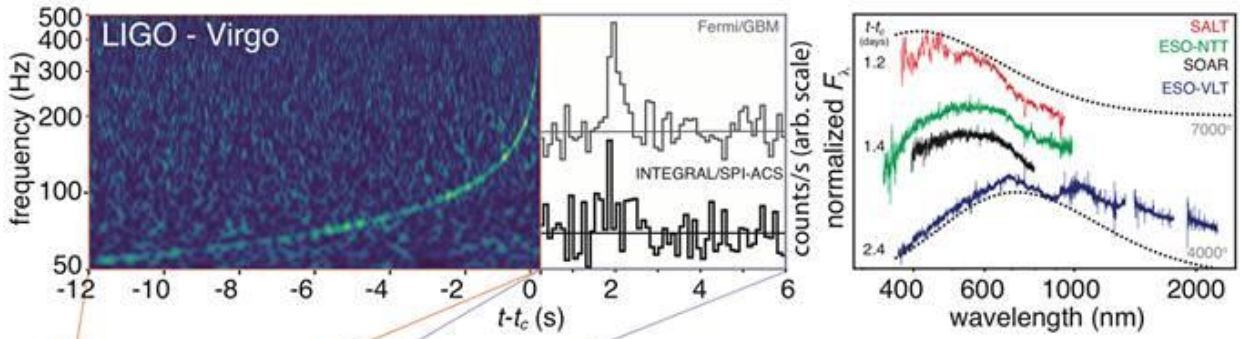
Prize share: 1/4

The Nobel Prize in Physics 2017 was divided, one half awarded to Rainer Weiss, the other half jointly to Barry C. Barish and Kip S. Thorne *"for decisive contributions to the LIGO detector and the observation of gravitational waves"*.

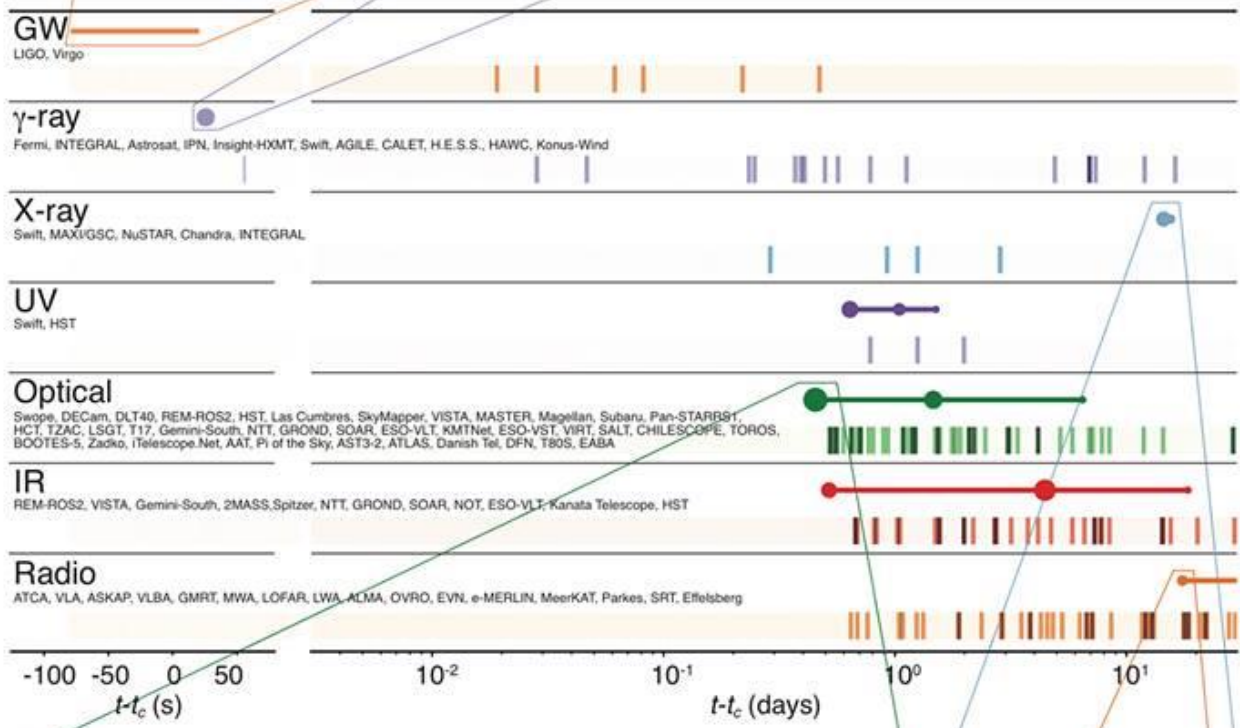
# Multi-messenger astronomy

Many compact merger sources will emit, besides gravitational waves, also light, X-rays, radio waves, neutrino's or other subatomic particles. Before, the sky localization was 600, 1200 and 1400 deg<sup>2</sup> for the first events. Now our three-detector global network will allow finding EM counterparts

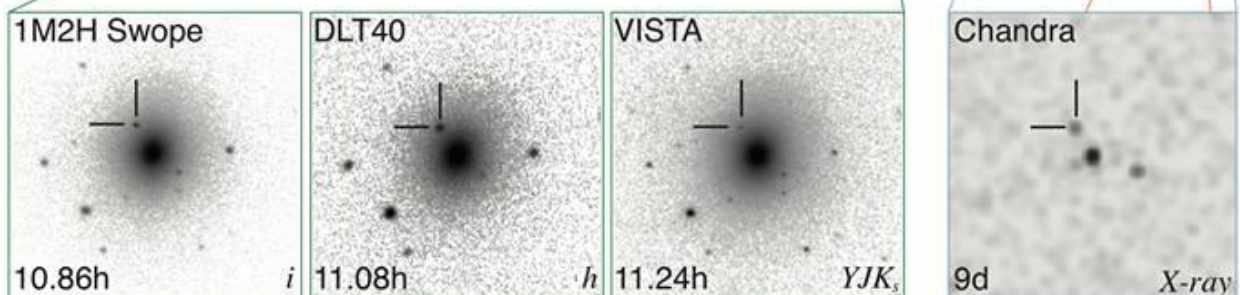




**Decision about location of Einstein telescope expected in 2021**



**Limburg is a serious candidate**





## The ATTRACT initiative

[www.attract-eu.org](http://www.attract-eu.org)



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# The ATTRACT initiative

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## Goal

- Focus on detection and imaging technologies
- From technology to societal value for Europe
- Co-development between science and industry
- From technology to societal value for Europe
- Fostering entrepreneurship
- An instrument for the young talent

# The ATTRACT initiative

## Principle

- 180 projects of 100 keuro
- Pitch after 1 year
- Few get 4 – 5 Meuro

## Timeline

- ATTRACT-NL: 12 january 2018
- Call open: Early 2018
- Call close: Spring 2018

**Looking for companies to pitch  
their imaging dream January 12**

# Holland @ CERN 2018

Monday the 5<sup>th</sup>

Arrive in Geneva

Tuesday the 6<sup>th</sup>

Morning – Talks by CERN 9 – 12:30

Afternoon – Business to CERN meetings 13:30 – 17:30

Wednesday the 7<sup>th</sup>

Morning – visits 9 – 12:30

Afternoon – Business to CERN meetings 13:30 – 17:30

**Still possible to sign up**

<https://www.bigscience.nl/nl/node/289>