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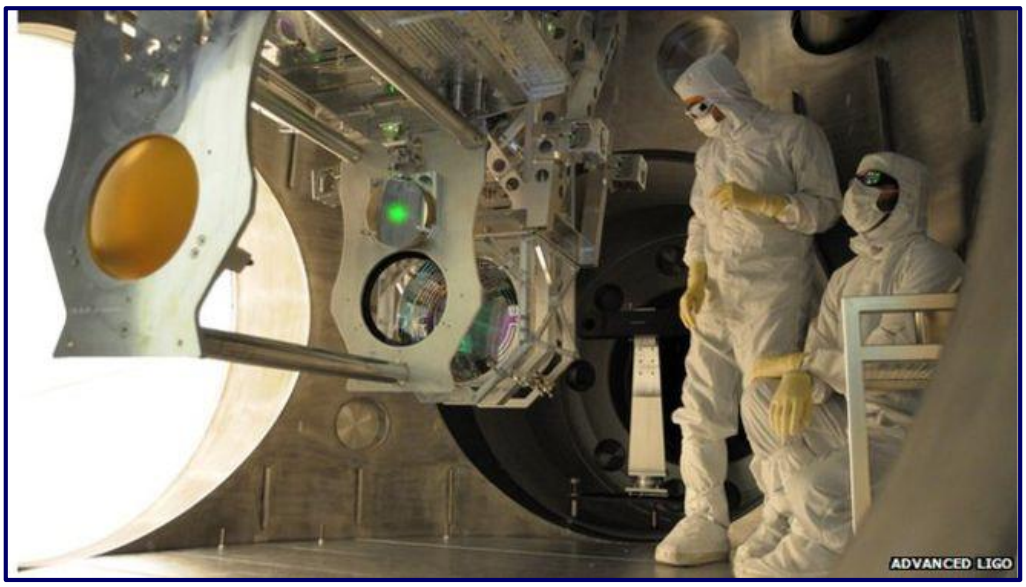
Technology for the LIGO Gravitational Wave Detectors



Professor Sheila Rowan, Director of the Institute for Gravitational Research, Glasgow University

Close to 100 years after the prediction by Einstein of the existence of gravitational waves, the advanced detectors of the Laser Interferometer Gravitational-wave Observatory (LIGO) recently detected these tiny "ripples in space-time" for the first time. Sheila Rowan will explain the nature of gravitational waves, describe what in the Universe can produce them, and explain the scientific and engineering technologies employed in their detection - enabling a new era in astronomy – and what lies ahead.

Professor Sheila Rowan is a Director of the Institute for Gravitational Research, University of Glasgow & Chief Scientific Advisor to the Scottish Government. Sheila's recent work formed part of the upgrades forming the Advanced LIGO observatories, carried out between 2010 and 2015, contributing to one of the most significant scientific breakthroughs of this century: the first detection of gravitational waves announced in February 2016 by the LIGO and Virgo Scientific Collaborations. She and the members of her team in Glasgow have shared in a set of international awards to the LIGO and Virgo collaborations including the 2016 Special Breakthrough Prize in fundamental Physics.

Admission Free
Visitors Welcome
Please register at:
http://www.theiet.org/events/local/249349.cfm

Find us on

Tuesday 3rd Oct 2017
18.00 for 18.30
Laphroaig 301,
Teacher Building
St Enoch Square
Glasgow, G1 4DB

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