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*Martin Hendry | TEDxGlasgow*

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Gravitational-Wave Physics  
and Astronomy: An  
Introduction ...

Gravitational-wave astronomy  
is an emerging branch of  
observational astronomy  
which aims to use

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gravitational waves to collect observational data about objects such as neutron stars and black holes, events such as supernovae, and processes including those of the early universe shortly after the

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Big Bang. Gravitational waves have a solid theoretical basis, founded upon the theory of relativity. They were first predicted by Einstein in 1916; although a specific consequence of general

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gravitational wave and  
particle physicists in an  
effort to study the strong  
nuclear force using a  
variety of observational and  
experimental channels,  
including gravitational wave  
measurements with the Virgo

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and LIGO detectors, multi-messenger astronomy, and heavy ion collisions in the Large Hadron Collider.

Postdoctoral Researcher in  
gravitational wave data ...  
Gravitational Wave Physics

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and Astronomy Workshop

GWPAW, Gravitational Wave  
Physics and Astronomy

Workshop, is a series of  
annual conferences which was  
initiated in the 90', having  
been hosted by University of  
Maryland in College Park



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Gravitational Wave Physics  
and Astronomy Workshop  
The Gravitational Wave  
Physics MSc provides broad  
and comprehensive training  
in both theory and

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experiment in gravitational  
wave (GW) physics and  
astronomy. The field of  
gravitational physics has  
grown rapidly in the last  
few years following the  
first direct detection of  
gravitational waves in 2015,

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one hundred years since they  
were first predicted by  
Einstein's general theory of  
relativity.

Gravitational Wave Physics  
(MSc) (full time) (1 year

...

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Astronomy An  
A gravitational wave is an invisible (yet incredibly fast) ripple in space. We've known about gravitational waves for a long time. More than 100 years ago, a great scientist named Albert Einstein came up with many

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Astronomy And  
ideas about gravity and  
space. Albert Einstein,  
official 1921 Nobel Prize in  
Physics photograph.

What Is a Gravitational  
Wave? | NASA Space Place -  
NASA ...

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Our research focuses on detecting cosmic gravitational waves and developing gravitational-wave observations as an astronomical tool. We are part of the Laser Interferometer Gravitational

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Astronomy An  
Wave Observatory (LIGO)  
scientific collaboration  
which announced the first  
direct detection of  
gravitational waves in 2015,  
a century after they were  
first predicted by Einstein.

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Gravity Exploration

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The gravitational-wave  
signals on which the studies  
are based were detected

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during the first half of the  
third observing run, called  
O3a, of the National Science  
Foundation's Laser  
Interferometry Gravitational-  
wave Observatory (LIGO), a  
pair of identical,  
4-kilometer-long

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Interferometers in the  
United States, and Virgo, a  
3-kilometer-long detector in  
Italy.

Wealth of Discoveries From  
Gravitational-Wave Data  
Leads ...

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The Institute for  
Gravitational and Subatomic  
Physics (GRASP) at Utrecht  
University invites  
applications for a  
Postdoctoral Researcher in  
gravitational-wave data  
analysis and searches. As

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Astronomy An  
the successful candidate you  
will work in the  
gravitational waves group of  
Dr Sarah Caudill and  
Professor Chris Van Den  
Broeck, on gravitational  
wave observations of  
coalescing binary neutron

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Gravitational Wave  
Sensitivity Curve Plotter -  
plot the strengths and  
sensitivities of

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gravitational wave sources  
and detectors; Pocket Black  
Hole phone/tablet app - play  
with the light-bending  
effects of a black hole;  
Space Time Quest - take  
charge of \$100 million and  
design your own



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interferometer

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"Gravitational-wave  
astronomy is reshaping our

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understanding of the  
universe," said one of the  
study's lead authors ARC  
Future Fellow, Dr. Paul  
Lasky, from the Monash  
University School of  
Physics...

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Finding NEMO: The future of  
gravitational-wave astronomy  
Director, Institute of  
Gravitational Wave  
Astronomy. School of Physics  
and Astronomy. Telephone 44  
(0)121 414 6447 Email  
a.vecchio@bham.ac.uk. Deputy

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Director. Professor Andreas  
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Gravitational Wave  
Astronomy.

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...

The first observation of gravitational wave signals in 2015, resulting from the merger of two stellar black holes, marked the beginning of the era of gravitational

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astronomy. Now,  
astrophysicists want to  
write a new chapter and  
detect gravitational waves  
in the nanohertz range,  
which e.g. supermassive  
black holes orbiting one  
another create, long before

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they collide. An  
Astronomy An

Gravitational wave  
astronomy: Black holes have  
no hair ...

A New Era in Fundamental  
Physics & Astronomy LIGO and  
Virgo were built to observe

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Astronomy And  
the gravitational waves  
emitted from the merger of  
compact binaries, such as  
two black holes or two  
neutron stars. And these  
types of mergers are the  
only events that the  
detectors have confidently



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Astronomy An  
spotted in the first two  
observing runs.

Physics - Gravitational-Wave  
Astronomy Still in Its  
Infancy

GOTO is an autonomous,  
intelligent telescope, which

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Astronomy An  
will search for unusual  
activity in the sky,  
following alerts from  
gravitational wave detectors  
- such as the Advanced Laser  
Interferometer Gravitational-  
Wave Observatory (Adv-LIGO),  
which recently secured the

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Astronomy And  
first direct detections of  
gravitational waves.

Gravitational waves are  
ripples in the fabric of  
space-time, created when  
massive bodies -  
particularly black holes and  
neutron stars - orbit each

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Astronomy And  
other and merge at very high  
speeds .

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