

ATI Summit: Big data in the physical sciences

Wednesday 13 January 2016 - Wednesday 13 January 2016

The Marble Hall/Kohn Centre, The Royal Society



Book of Abstracts

Contents

ATI Overview	1
Data science in the physical sciences	1
21st Century Physical Sciences: The Age of Algorithms?	1
From physical modelling to big data analytics: examples and challenges	1
Spotlight talks	1

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ATI Overview

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1

Data science in the physical sciences

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2

21st Century Physical Sciences: The Age of Algorithms?

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3

From physical modelling to big data analytics: examples and challenges

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4

Spotlight talks

Summary:

Spotlight speakers (in order):

Karin Sigloch (Oxford) - "Seismic tomography"

Aris Karastergiou (Oxford) - "Pulsars"

Juha Jäykkä (Cambridge) - "Algorithms to Architectures"

Stephen Smartt (Belfast) - "Big Data problems for transient sky surveys in astronomy"

Peter Coveney (UCL) - "Compute and data-intensive simulations, error analysis & control in the chemical sciences"

Thomas Kitching (MSSL) - "Euclid"

Eiko Yoneki (Cambridge) - "Efficient massive-scale graph processing"

Jonathan Gair (Edinburgh) - "Challenges in data analysis for gravitational wave detectors"

Tim Scanlon (UCL) - "Big Data at the Large Hadron Collider"

Alan Heavens (Imperial) - "Many data: few numbers; many data: many numbers"

Sjoerd de Ridder (Edinburgh) - "Analysing data from Large N permanent seismic stations to monitor subsurface processes"

Serena Viti (UCL) - "Data science challenges and solutions in astrochemistry"

David Wallom (Oxford) - "Creating insight from Big Data in Energy and the environment"