

RECONNECT 2020



Report of Contributions

Contribution ID: **1**

Type: **not specified**

Welcome

Monday 25 May 2020 12:50 (10 minutes)

Zoom link

<https://durhamuniversity.zoom.us/j/97345030977?pwd=b014N1ErQ0FpdFhjREg3Q1pXN2Rvdz09>

Presenter: SPANNOWSKY, Michael (IPPP, Durham University)

Contribution ID: 2

Type: **not specified**

Novel Developments in Testing Gravitational Interactions

Friday 29 May 2020 09:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/95685713912?pwd=cGVlWnlzRHFUamRaZFY2eloyd0owQT09>

Presenter: HEISENBERG, Lavinia (ETH Zurich)

Contribution ID: 3

Type: **not specified**

Swampland Phenomenology

Friday 29 May 2020 11:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/94474415281?pwd=NDFUTktsTVhDaVNNNXVaUTRpbVpRZz09>

Presenter: MARCH-RUSSELL, John (University of Oxford)

Contribution ID: 4

Type: **not specified**

Spacetime, Quantum Mechanics and Positive Geometry at Infinity

Friday 29 May 2020 15:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/92186797920?pwd=MEIwL21ybGdjcXNnVzZnb05kWGtrZz09>

Presenter: ARKANI-HAMED, Nima (IAS Princeton)

Contribution ID: 5

Type: **not specified**

Recent Progress in Lattice QCD

Thursday 28 May 2020 09:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/93699565135?pwd=Rm1rS3k4SFQwRzJ6Q3lYTHcxM0FaUT09>

Presenter: DAVIES, Christine (University of Glasgow)

Contribution ID: 6

Type: **not specified**

How quantum foundations might affect high energy particle physics

Thursday 28 May 2020 11:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/92654246176?pwd=WHlVTHhRZlFVaGFRWUZ6ay9EcDhiUT09>

Dissatisfied with today's prevalent views in the literature, on the implications of quantum theory for reality at the tiniest distance scales of physics, this speaker has made attempts to explain what 'really' happens. This is not at all a hopeless enterprise; indeed, we found ways to connect classical evolution laws to Schrödinger's equation. Today, our information concerning the observed particles is still far from adequate to isolate any one particular automaton, but we can draw rough general conclusions. One of these is that this approach would outlaw the famous "anthropic principle". Another is that quantum computers may be able to perform miracles in the not-so-distant future, but there will be limits to the non-polynomial problems that one might ever be able to solve, even in the distant future.

Presenter: 'T HOOFT, Gerard (University of Utrecht)

Contribution ID: 7

Type: **not specified**

Flavour and CP violation in the charm sector

Thursday 28 May 2020 15:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/96930653902?pwd=Sld5ZGtSL25uUDArY3M5b01YNDJzZz09>

Presenter: GROSSMAN, Yuval (Cornell University)

Contribution ID: 8

Type: **not specified**

Searching for light new physics

Thursday 28 May 2020 17:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/94147242962?pwd=aUIrOXlZL3Z2ZkVCZDA2VmtkbmsxZz09>

Presenter: POSPELOV, Maxim (University of Minnesota)

Contribution ID: 9

Type: **not specified**

Developments and prospects on the concepts of high-precision calculations

Wednesday 27 May 2020 09:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/97080336103?pwd=SE9UNFBBOGU0WU9peXMwMINWTlFkUT09>

Presenter: ANASTASIOU, Babis (ETH Zurich)

Contribution ID: **10**

Type: **not specified**

Predicting the fine structure of collider events

Wednesday 27 May 2020 11:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/93028916985?pwd=aFdMYnJYUk9GNm5CWtJFR1MzVHR2dz09>

Presenter: SALAM, Gavin (University of Oxford)

Contribution ID: **11**

Type: **not specified**

Magnetic Black Holes

Wednesday 27 May 2020 15:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/97494618140?pwd=a0VvQUdvdjHA0NEVsczY1N2w5LzlkZz09>

Presenter: MALDACENA, Juan (IAS Princeton)

Contribution ID: **12**

Type: **not specified**

Dark Stars and Dark Matter phenomenology

Wednesday 27 May 2020 17:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/98921234105?pwd=ejljVlArTzdZNkhjZEJ6WU5zOStVZz09>

Presenter: FREESE, Katherine (University of Texas)

Contribution ID: **13**

Type: **not specified**

Developments in Neutrino phenomenology

Tuesday 26 May 2020 15:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/95789141500?pwd=bCtwd3FyU3podXJhcVJlbU9TaWZRUT09>

Presenter: DE GOUVEA, Andre (Northwestern University)

Contribution ID: **14**

Type: **not specified**

Dark Colors

Tuesday 26 May 2020 17:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/95974733942?pwd=WDRua2YrcGFSYmgwTjRqOXI4bExadz09>

Presenter: MURAYAMA, Hitoshi (Kavli IPMU)

Contribution ID: 15

Type: **not specified**

Probing dark matter and gravitational waves with atom interferometry

Monday 25 May 2020 13:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/97345030977?pwd=b014N1ErQ0FpdFhjREg3Q1pXN2Rvdz09>

Presenter: ELLIS, John (King's College London)

Contribution ID: **16**

Type: **not specified**

KKLT and extra dimensions

Monday 25 May 2020 15:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/99211991620?pwd=SXlXTHBoS3c5dW5JNXBONmNqOTBTdz09>

Author: RANDALL, Lisa (Harvard University)

Presenter: RANDALL, Lisa (Harvard University)

Contribution ID: 17

Type: **not specified**

(Re)Connecting Dark Matter, Inflation, CMB

Monday 25 May 2020 17:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/99512018600?pwd=bHRvSi9La1l3TEx0VGhkYmg5Y0V3Zz09>

Presenter: KOLB, Rocky (University of Chicago)

Contribution ID: **18**

Type: **not specified**

Theoretical Prospective on the Lepton Flavour Problem

Tuesday 26 May 2020 11:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/92975874910?pwd=MEF4aEQ2eG5DTjJyQUpWZngrMXV3UT09>

Presenter: PETCOV, Serguey (SISSA Trieste)

Contribution ID: **19**

Type: **not specified**

Searching for new physics with precision

Tuesday 26 May 2020 09:00 (1 hour)

Zoom link

<https://durhamuniversity.zoom.us/j/96874941943?pwd=dzdlbEtEdUxoYmhUcjcyVFJ0cGd2QT09>

Presenter: PEREZ, Gilad (Weizmann Institute)