

# **Monday 6 May**

14:00

## Cosmology

Session | Location: FAU FTL Room 312

14:00-14:15 Emergent dark energy from loop quantum cosmology

## Speaker

Yongge Ma

## 14:15-14:30

Hydrodynamics on minisuperspace: connecting quantum gravity and cosmology

### Speaker

Daniele Oriti

## 14:30-14:45

Inflationary and pre-inflationary scalar perturbations on closed universes in loop quantum cosmology

#### Speaker

Nelson Yokomizo

## 14:45-15:00

Uniform Asymptotic Approximation Method with Pöschl-Teller Potential

#### Speaker

Rui Pan

## 15:00-15:15

Universal properties of the universe in modified loop quantum cosmologies

Jamal Saeed, Mr Christian Brown

15:15-15:30 Angular power spectrum from different regularizations in LQC

## Speaker

meysam motaharfar

## 15:30-15:45

Investigating Singularity Resolution in Loop Quantized Bianchi-IX Spacetimes: **Ekpyrotic Potentials** 

## Speaker

Rachel Brown

16:00 16:30

## Cosmology

Session | Location: FAU FTL Room 312

Semiclassical geometrodynamics of homogeneous cosmology 16:30-16:45

## Speaker

Muhammad Muzammil

16:45-17:00 Bouncing cosmology from LQC with ekpyrotic and matter fields

Speaker

**Emmanuel Frion** 

17:00-17:15 The Bounce in the Bianchi models as a quantum scattering

Speaker

Eleonora Giovannetti

17:15-17:30 Precision cosmology as a probe of quantum gravity

Speaker

Mauricio Gamonal San Martin

17:30-17:45 The central role of Gauss constraint across LQC and LQG

Speaker

Matteo Bruno

17:45-18:00

Post-Newtonian gravitational waves with cosmological constant derived from **Einstein-Hilbert action** 

Speaker

Ricardo Escobedo

18:00-18:15

Diffusive effects of Planckian discreteness: the thermal bath of quantum-gravity defects

Speaker

Pietro Pellecchia

18:15