



# YTF 21

## Thursday, 16 December 2021

### Full-length talks: Thursday afternoon session 1 - Room 1 (15:30 - 17:00)

-Conveners: Connor Armstrong

time	[id] title	presenter
15:30	[122] $H_{\bar{b}}^b$ production as an example of modern amplitudes calculations	KRYS, Jakub
16:00	[150] Three-loop helicity amplitudes for diphoton production in gluon fusion	BARGIELA, Piotr
16:30	[157] Decomposition of Triple Collinear Splitting Functions	BRAUN-WHITE, Oscar

### Full-length talks: Thursday afternoon session 2 - Room 2 (15:30 - 17:00)

-Conveners: Arpit Das

time	[id] title	presenter
15:30	[143] Fifth forces in scalar-tensor theories and how to avoid them	SEVILLANO MUÑOZ, Sergio
16:00	[138] A Good and Fun way to lift Supergravity Moduli	SMITH, George
16:30	[140] Cosmological and quantum gravity applications of quantum Riemannian geometry on polygons	ARGOTA QUIROZ, Julio Narciso

### Full-length talks: Thursday evening session 1 - Room 1 (17:30 - 19:00)

-Conveners: Dorian Amaral

time	[id] title	presenter
17:30	[123] Chiral models of composite axions and accidental Peccei-Quinn symmetry	REVELLO, Filippo
18:00	[125] A stochastic approach to scalar correlators in cosmological de Sitter	CABLE, Archie
18:30	[144] Cosmology of a new class of massive vector fields	POZSGAY, VICTOR

### Full-length talks: Thursday evening session 2 - Room 2 (17:30 - 19:00)

-Conveners: Richie Dadhley

time	[id] title	presenter
17:30	[153] Holomorphic Modular Bootstrap	DAS, Arpit
18:00	[141] Hilbert series techniques in quantum field theory	AKHOND, Mohammad
18:30	[134] Gravity at the Tip of the Throat	BENTO, Bruno

# Friday, 17 December 2021

## Full-length talks: Friday morning session 1 - Room 1 (09:15 - 10:45)

-Conveners: Guillaume Rostagni

time	[id] title	presenter
09:15	[160] Introduction to the Cosmic Neutrino Background	SHERGOLD, Jack
09:45	[162] Energy transport by dark matter scattering in the Sun	BANKS, Hannah
10:15	[149] Searching for dark-matter waves with pulsar polarimetry	TEROL CALVO, Jorge

## Full-length talks: Friday morning session 2 - Room 2 (09:15 - 10:45)

-Conveners: Ryan Moodie

time	[id] title	presenter
09:15	[132] Primordial black hole formation with full numerical relativity	DE JONG, Eloy
09:45	[124] Quantum computing approaches for simulating parton showers in high energy collisions	WILLIAMS, Simon
10:15	[155] Precision Calculation in Theoretical Predictions	Mr YU, Hang

## Full-length talks: Friday afternoon session 1 - Room 1 (13:30 - 15:00)

-Conveners: Hitham Hassan

time	[id] title	presenter
13:30	[133] EW Sudakov logarithms and their implementation in OpenLoops	MAI, Lorenzo
14:00	[156] Theoretical Frontiers in Neutrinoless Double-Beta Decay	VAN GOFFRIER, Graham
14:30	[158] Improved Constraints on Effective Top Quark Interactions using Edge Convolution Networks	STYLIANOU, Panagiotis

## Full-length talks: Friday afternoon session 2 - Room 2 (13:30 - 15:00)

-Conveners: Jack Shergold

time	[id] title	presenter
13:30	[146] Fueling the search for light dark matter-electron scattering	HAMAIDE, Louis
14:00	[135] Light inflaton model in a metastable Universe	Ms KEATS, Abigail
14:30	[130] Indirect detection of long-lived particles via a less-simplified dark Higgs portal	JODLOWSKI, Krzysztof

## Full-length talks: Friday evening session 1 - Room 1 (15:15 - 16:45)

-Conveners: Richie Dadhley

time	[id] title	presenter
15:15	[151] Unoriented dualities from brane tiling	MANCANI, Salvatore
15:45	[139] Type II Calabi-Yau compactifications in general spacetime signature	MÉDEVIELLE, Maxime
16:15	[126] Constructing The Standard Model from String Theory	HARVEY, Thomas

**Full-length talks: Friday evening session 2 - Room 2 (15:15 - 16:45)****-Conveners: Oscar Braun-White**

time	[id] title	presenter
15:15	[163] Lattice simulations of early universe first order deconfinement phase transitions	MASON, David
15:45	[136] A comparison of spectral reconstruction methods applied to non-zero temperature NRQCD meson correlation functions	Mr SPRIGGS, Thomas
16:15	[142] Scheme Dependence in pQCD at the Four Loop Level	MASON, Robert