



# Kashiwa-no-ha Dark Matter and Cosmology Symposium (Satellite workshop of COSMO 2024)

## Tuesday 29 October 2024

### Dark Matter Theory: Parallel D - Lecture Hall (15:30 - 16:30)

-Conveners: Kento Asai

time	[id] title	presenter
15:30	[96] Memory burden effects and new mass ranges of PBH dark matter	KOHRI, Kazunori
15:45	[97] Tidal Evolution of Subhalos in a Fuzzy Dark Matter Milky Way halo	ROBLES, Victor
16:00	[98] Cosmological simulations with Ultra-light dark Matter	MUNIVE VILLA, Erick
16:15	[103] Sub-GeV Dark Sink Dark Matter	MCGEHEE, Robert

# Wednesday 30 October 2024

## **Dark Matter Theory: Plenary 18-19 - Lecture Hall (11:00 - 12:00)**

-Conveners: Andrew Eberhardt

time	[id] title	presenter
11:00	[74] Axion Relic Pockets -- A new theory of dark matter	MARSH, David
11:30	[73] Searching for ultralight axion-like dark matter from birefringence	URAKAWA, Yuko

## **Dark Matter Theory: Parallel E - Seminar Room A (14:00 - 15:00)**

-Conveners: Shigeki Matsumoto

time	[id] title	presenter
14:00	[100] Revisiting Q-ball dark matter: closer look at interaction with ordinary matter	KAMADA, Ayuki
14:15	[99] Searching for Planck-scale Mass Dark Matter with Large Liquid Scintillator Experiments like SNO+	LUO, Meng
14:30	[102] Nucleon Consumption and Mass-Energy Conversion Induced by Dark Matter	Prof. GE, Shao-Feng
14:45	[101] Light Thermal Dark Matter and MeV Gamma-ray Detection	WATANABE, Yu

# Thursday 31 October 2024

## Dark Matter Theory: Plenary 20-21 - Lecture Hall (09:00 - 10:00)

-Conveners: Kento Asai

time	[id] title	presenter
09:00	[78] Ultralight Dark Matter Search: unconventional techniques and their theoretical challenges	FUJITA, Tomohiro
09:30	[79] Dark matter in the form of primordial black holes: how they could be produced and how they can be detected	KUSENKO, Alexander

## Dark Matter Theory: Parallel I - Lecture Hall (15:30 - 16:30)

-Conveners: Andrew Eberhardt

time	[id] title	presenter
15:30	[116] Black Holes as Probes for Ultralight Dark Matter	BUCCIOTTI, Bruno
15:45	[117] Constraints on the Fraction of Fuzzy dark Matter from Halo Dynamics	MANITA, Yusuke
16:00	[118] Primordial Black Holes, Charge, and Dark Matter: Rethinking Evaporation Limits	SANTIAGO, Jessica
16:15	[119] TBA	ZAGORAC, Luna

# Friday 1 November 2024

## Dark Matter Theory: Parallel K - Lecture Hall (09:30 - 10:00)

-Conveners: Ippei Obata

time	[id] title	presenter
09:30	[124] Scalars remember the hot big bang	CYNCYNATES, David
09:45	[125] Imprints of energy injection by compact dark stars during reionization	BETANCOURT KAMENETSKAIA, Boris

## Dark Matter Theory: Parallel O - Lecture Hall (11:30 - 12:45)

-Conveners: Kohei Hayashi

time	[id] title	presenter
11:30	[136] Towards robust predictions for thermal production of multicomponent dark matter	HRYCZUK, Andrzej
11:45	[137] A Slightly Oblate Dark Matter Halo with a Core-like Inner Density Profile Revealed by Fine-Stratified Stellar Populations from Gaia DR3	MA, Hai-Xia
12:00	[138] Weak Lensing Constraints on Dark Acoustic Oscillation	TSAI, Yue-Lin Sming
12:15	[139] Robustness of the Galactic Center Excess Morphology Against Masking	ZHONG, Yiming
12:30	[140] Phenomenology of bubble size distributions in a first-order phase transition	TSENG, Po-Yen