



# FoPM International Symposium

## Tuesday 18 February 2025

### Parallel Session 3: Parallel Session 3A - Auditorium (11:00 - 12:30)

-Conveners: Shunta KITAHAMA

time	[id] title	presenter
11:00	[70] Solitons and scars in 1d interacting chiral fermion systems as qKdV equation	KITAHAMA, Shunta
11:15	[71] Tasting proton decay	CHITOSE, Akifumi
11:30	[72] Orbital polarization induced by chiral phonon excitations	OMURA, Satoshi
11:45	[73] Image restoration experiment for infrared data of Venusian clouds	GUO, Zhuan
12:00	[74] Equivariant Poisson structures and module categories over representation categories	HOSHINO, Mao
12:15	[75] Uniqueness of the non-equilibrium steady state in open quantum many-body systems	YOSHIDA, Hironobu

### Parallel Session 3: Parallel Session 3B - Conference Room, F3 (11:00 - 12:30)

-Conveners: Kohei YOSHIMURA

time	[id] title	presenter
11:00	[76] Deformation of heat kernels and Brownian motion from the viewpoint of Ben Saïd-Kobayashi-Ørsted $(k, a)$ -generalized Laguerre semigroup theory	AOYAMA, Temma
11:15	[77] Tensor networks for quantum machine learning	MUROTA, Keisuke
11:30	[78] Bidirectional quantitative scattering microscopy	HORIE, Kohki
11:45	[79] Numerical simulation of magnetic monopoles in topological magnets	YAMADA, Midori
12:00	[80] Universal structure of nonequilibrium thermodynamics	YOSHIMURA, Kohei

### Parallel Session 3: Parallel Session 3C - Seminar Room, F3 (11:00 - 12:30)

-Conveners: Tik Tsun YEUNG

time	[id] title	presenter
11:00	[81] Demonstration of selective quantum teleportation toward switching-free quantum computation	KAWASAKI, Akito
11:15	[82] Discovery of a massive bulge-dominated galaxy in the early Universe	TSUJITA, Akiyoshi
11:30	[83] Endomorphisms of von Neumann algebras and fusion categories	KAWASUMI, Kotaro
11:45	[84] Probing neural activity driving animal movements	DATE, Takahisa
12:00	[85] Investigating stellar element production in laboratory	YEUNG, Tik Tsun
12:15	[86] TBA	AKITA, Jun

### Parallel Session 3: Parallel Session 3D - Gallery 1, B1 (11:00 - 12:30)

**-Conveners: Ryoto TAKEUCHI**

time	[id] title	presenter
11:00	[87] Cosmic Birefringence : a hint of new physics	NAOKAWA, Fumihiro
11:15	[88] Narrow-line-mediated Sisyphus cooling in the 3P2 metastable state of strontium	TAKEUCHI, Ryoto
11:30	[89] Oligarchic growth of protoplanets in an expanding planetesimal ring	KAMBARA, Yuki
11:45	[90] Comprehensive Understanding of Cosmic Reionization History with JWST and Subaru	UMEDA, Hiroya
12:00	[91] Search for Ultralight Axion Dark Matter with Optical Ring Cavity	FUJIMOTO, Hiroki
12:15	[92] Log-rank test with nonparametric matching	BABA, Tomoya