

KEK Theory Meeting on Particle Physics Phenomenology (KEK-PH2025winter)

Tuesday, February 18, 2025

parallel session A: flavor - seminar hall (3:20 PM - 4:20 PM)

-Conveners: Takuya Morozumi

time	[id] title	presenter
3:20☒PM	[19] Flavor anomalies and 2HDM with flavor symmetry	XU, Fanrong
3:40☒PM	[20] The possible solution to V_{cb} puzzle from nontrivial analyticity of quark propagator	ZHU, Jinglong
4:00☒PM	[21] A novel approach to charm mixing	UMEEDA, Hiroyuki

parallel session A: flavor - seminar hall (4:50 PM - 5:50 PM)

-Conveners: Takuya Morozumi

time	[id] title	presenter
4:50☒PM	[22] Analysis of Flavor Models by Diffusion Model	NISHIMURA, Satsuki
5:10☒PM	[23] Heavy quark symmetry behind $b \rightarrow c$ semileptonic sum rule	IGURO, Syuhei

Wednesday, February 19, 2025

parallel session A: collider - seminar hall (1:30 PM - 2:30 PM)

-Conveners: Mihoko Nojiri

time	[id] title	presenter
1:30PM	[31] Single top plus Higgs production at the LHC	ZHENG, Yajuan
1:50PM	[32] Transformers for jet tagging	HAMMAD, Ahmed
2:10PM	[33] Dark photon pair production via off-shell dark Higgs at FASER	NAKASHIMA, Yohei

parallel session A: collider - seminar hall (3:00 PM - 4:00 PM)

-Conveners: Mihoko Nojiri

time	[id] title	presenter
3:00PM	[34] T violation at a future neutrino factory	SUGAMA, Sho
3:20PM	[35] Higgs Boson Production at e^+e^- Colliders	TREUER, Lukas
3:40PM	[36] Verifying the Resonance Schemes of Unstable Particles at Lepton Colliders	MIN, Ui

parallel session A: collider - seminar hall (4:30 PM - 5:30 PM)

-Conveners: Mihiko Nojiri

time	[id] title	presenter
4:30PM	[37] Prospects for quantum process tomography at high energies	SAKURAI, Kazuki
4:50PM	[38] New Physics Implications of Vector Boson Fusion Searches	GHOSH, Nivedita
5:10PM	[24] Are Fractals Behind Flavor Mixing of the SM?	SINGH, Aadarsh

Thursday, February 20, 2025

parallel session A: dark matter / baryogenesis - seminar hall (1:30 PM - 2:30 PM)

-Conveners: Motoko Fujiwara

time	[id] title	presenter
1:30PM	[48] Sterile neutrino dark matter production in lepton asymmetric universe and its observational implications	KASAI, Kentaro
1:50PM	[50] New EDM bounds for electroweak baryogenesis with the minimal setup for CP violation in the extended Higgs model	MURA, Yushi
2:10PM	[72] Memory-Burdened Primordial-Black-Hole Dark Matter probed by Induced Gravitational Waves	TERADA, Takahiro

parallel session A: leptogenesis - seminar hall (3:00 PM - 4:00 PM)

-Conveners: Motoko Fujiwara

time	[id] title	presenter
3:00PM	[51] A new mechanism for leptogenesis in three-Higgs-doublet models	WATANABE, Hidenaga
3:20PM	[52] Leptogenesis and Neutrinoless Double-Beta Decay	YOKOYAMA, Tatsuya
3:40PM	[53] Leptogenesis in the presence of density perturbations	TAKADA, Rin

parallel session A: leptogenesis - seminar hall (4:30 PM - 5:30 PM)

-Conveners: Motoko Fujiwara

time	[id] title	presenter
4:30PM	[54] Flavored leptogenesis in Scotogenic models	SEKIKAWA, Yurika
4:50PM	[55] Thermal leptogenesis in $SO(10) \times U(1)$ GUT	SHIBATA, Kei
5:10PM	[56] The time evolution of lepton numbers, Majorana (type) phases and the connection to CP violation for leptogenesis	MOROZUMI, Takuya

Friday, February 21, 2025

parallel session A: cosmo - seminar hall (9:50 AM - 10:50 AM)

-Conveners: Yuta Hamada

time	[id] title	presenter
9:50AM	[65] Effects of electroweak phase transition on dark matter relic abundance	IDEGAWA, Chikako
10:10AM	[66] Completing the perturbative program for cosmological phase transitions	SCHICHO, Philipp
10:30AM	[67] Reheating Process after Axion Inflation	TSUJI, Tenta