



# KEK-PH Lectures and Workshops 2021

## Wednesday, 9 March 2022

### KEK-PH + KEK-COSMO joint mini-workshop: Lecture (11:00 - 12:00)

-Conveners: Yuko Urakawa

time	[id] title	presenter
11:05	[43] Resonant excitation of the axion field during the QCD phase transition	Prof. XUE, Wei

### KEK-PH + KEK-COSMO joint mini-workshop: First afternoon session (13:30 - 14:55)

-Conveners: Noaya Kitajima

time	[id] title	presenter
13:30	[27] Reheating after Mixed Higgs- $R^2$ Inflation	HE, Minxi
14:05	[28] Massless Preheating and Electroweak Vacuum Metastability	TERADA, Takahiro
14:30	[29] Constrained Superfields in Dynamical Background	AOKI, Shuntaro

### KEK-PH + KEK-COSMO joint mini-workshop: Second afternoon session (15:20 - 16:55)

-Conveners: Minxi He

time	[id] title	presenter
15:20	[30] Parametric resonance instability of the QCD axion	KITAJIMA, Naoya
15:55	[31] Cosmological effects of Peccei-Quinn symmetry breaking on QCD axion dark matter	NAKAGAWA, Shota
16:20	[33] Origin of pseudo-Nambu-Goldstone dark matter	ABE, Yoshihiko

# Thursday, 10 March 2022

## KEK-PH + KEK-COSMO joint mini-workshop: Morning session (11:00 - 12:00)

-Conveners: Yu Hamada

time	[id] title	presenter
11:00	[34] Dark radiation abundance in axion-SU(2) model	OGATA, Masahito
11:25	[35] Searching for axion dark matter/gravitational waves with magnons	ITO, Asuka

## KEK-PH + KEK-COSMO joint mini-workshop: First afternoon session (13:30 - 14:55)

-Conveners: Motoi Endo

time	[id] title	presenter
13:30	[36] Electroweak baryogenesis in the three-loop neutrino mass model with dark matter	ENOMOTO, Kazuki
14:05	[37] Contribution of Weinberg operator to EDM	OSAMURA, Naohiro
14:30	[38] Evolution of Lepton Number for Neutrinos	J. BENOIT, Nicholas

## KEK-PH + KEK-COSMO joint mini-workshop: Second afternoon session (15:20 - 16:55)

-Conveners: Ryutaro Matsudo

time	[id] title	presenter
15:20	[39] Electroweakly interacting spin-1 dark matter and its phenomenology	FUJIWARA, Motoko
15:55	[40] Chiral Composite Asymmetric Dark Matter	WATANABE, Keiichi
16:20	[41] Electroweak-Skyrmion as Asymmetric Dark Matter	HAMADA, Yu