



# HPNP Special Edition 2021

## Friday, 26 March 2021

### Session 8: Session8-A Chair Person: Apostolos Pilaftsis (University of Manchester) (18:00 - 20:00)

time	[id] title	presenter
18:00	[35] The Dark Phases of the N2HDM	FERREIRA, Pedro
18:30	[57] Vector DM from hidden local SU(2)	Prof. NOMURA, Takaaki
18:45	[9] 2HDM with soft CP-violation: EDM, collider test, and baryogenesis	Dr MAO, Ying-nan
19:00	[92] Massless Preheating and the Electroweak Vacuum Instability	TERADA, Takahiro
19:15	[21] A light Higgs state decay to photon pair in the BLSSM	ABDELALIM, Ahmed Ali
19:30	[84] ALPs and chiral extensions of the SM	BONNEFOY, Quentin
19:45	[43] Heavy dark matter through the dilaton portal	KANG, Dong Woo

### Session 8: Session8-B Chair Person: Michael Spira (Paul Scherrer Institut) (18:00 - 20:00)

time	[id] title	presenter
18:00	[41] Novel probes of Higgs couplings to light SM quarks	Dr NO, Jose Miguel
18:30	[15] Recent ATLAS results on the search for BSM physics with boosted $H \rightarrow b\bar{b}$ decays	LI, Shu
18:45	[96] Toward understanding the phase structure of the fundamental composite Higgs	HASHIMOTO, Michio
19:00	[2] Indirect CP probes of the Higgs–top-quark interaction: current LHC constraints and future opportunities	BAHL, Henning
19:15	[72] Dark Photon from Light Scalar Boson Decays at FASER	SHIMOMURA, Takashi
19:30	[38] Looking for light scalars in 2HDM at the ILC	Dr MONDAL, Tanmoy
19:45	[44] Affine gravitational scenario for dark matter decay	AZRI, Hemza

### Session 8: Session8-C Chair Person: Shigeki Matsumoto (Kavli IPMU, U. Tokyo) (18:00 - 20:00)

time	[id] title	presenter
18:00	[52] Magnetic mass effect on the sphaleron energy	SENAHA, Eibun
18:30	[90] High-temperature EW symmetry breaking: Reassessing the window for EW baryogenesis in Composite Higgs models.	MATSEDONSKYI, Oleksii
18:45	[37] Electroweak phase transition triggered by fermion sector	HASHINO, Katsuya
19:00	[10] Lepton as the source of EW baryogenesis	XIE, Ke-Pan
19:15	[68] A Critical Look at the Electroweak Phase Transition	LÖFGREN, Johan
19:30	[58] Recent progress in the calculation of the Higgs trilinear coupling in models with extended scalar sectors	Dr BRAATHEN, Johannes
19:45	[16] Testing electroweak phase transition at muon colliders	LIU, Wei