

Bright ideas for a dark universe

Tuesday, 21 September 2021

Parallel Session: Phenomenology - Seminar room 4 (a+b) (09:30 - 12:00)

-Conveners: Bibhushan Shakya; Elina Fuchs; Fady Bishara

time	[id] title	presenter
09:30	[110] Simulating and unfolding LHC event with generative networks	BUTTER, Anja
09:50	[114] Anomaly detection with CATHODE	SCHLAFFER, Matthias
10:05	[118] Autoencoders for unsupervised anomaly detection in high energy physics	MORANDINI, Alessandro
10:20	[137] Double Descent and Contrastive Learning	GUIDETTI, Veronica
10:35	Coffee Break	
11:00	[117] Neutrino magnetic moment -- mass conundrum in the Light of Recent Experiments	JANA, Sudip
11:15	[3] IceCube constraints on the scotogenic model	DE BOER, Thede
11:30	[95] Probing Dirac vs Majorana nature of neutrinos at CE ν NS experiments	HATI, Chandan
11:45	[123] Fate of the Electroweak Symmetry in the Early Universe in Multi-Higgs models	OLEA ROMACHO, Maria Olalla

Wednesday, 22 September 2021

Parallel Session: Phenomenology - Seminar room 4 (a+b) (14:00 - 17:30)

-Conveners: Elina Fuchs; Bibhushan Shakya; Fady Bishara

time	[id] title	presenter
14:00	[111] The on-shell SMEFTs	DURIEUX, Gauthier
14:20	[94] Light-cone distribution amplitudes in QCD \times QED	TOELSTEDE, Jan-Niklas
14:35	[27] CP violating phases in the strong interaction	CRUZ, Juan S.
14:50	[121] Top-quark fragmentation into a Higgs boson with next-to-leading order accuracy	BRANCACCIO, Colomba
15:05	[124] Towards automated SM NLO corrections for all colliders	BREDT, Pia
15:20	[56] Phenomenological Impact of Non-Perturbative Effects for Colored Dark Sectors	COPELLO, Emanuele
15:35	Coffee Break	
16:00	[115] $(g-2)_\mu$, B anomalies and DM: a loop model tale	FEDELE, Marco
16:15	[119] Explaining B-Anomalies from flavorful U(1)' extensions, safely	STEUDTNER, Tom
16:30	[34] QED factorization of two-body non-leptonic and semi-leptonic B to charm decays	FINAURI, Gael
16:45	[113] Interplay of dineutrino modes with semileptonic rare B-decays	GISBERT MULLOR, Hector
17:00	[59] Complementarity of muon charged lepton flavour violating processes in the MRSSM	KHASIANEVICH, Uladzimir
17:15	[20] Supersymmetric Alignment Models for muon $g-2$	SUZUKI, Motoo

Thursday, 23 September 2021

Parallel Session: Phenomenology - Seminar room 4 (a+b) (09:15 - 12:25)

-Conveners: Fady Bishara; Bibhushan Shakya; Elina Fuchs

time	[id] title	presenter
09:15	[109] Dark universe from (primordial) black holes	PETROSSIAN-BYRNE, Rudin
09:35	[74] Dark matter phenomenology in two higgs doublet model with a complex scalar singlet	DUTTA, Juhi
09:50	[43] NLO electroweak potentials for minimal DM and beyond	URBAN, Kai
10:05	[1] Tau-sleptons - a key role in dark matter coannihilations?	Mr BRANAHL, Johannes
10:20	[38] Spin-2 mediated Dark Matter in Warped Extra-Dimensions	Mr DE GIORGI, Arturo
10:35	[120] Dark Matter Phenomenology of 1-Loop Solutions to the R_K anomaly	BECKER, Mathias
10:50	Coffee Break	
11:15	[11] Long-lived particles and portal EFTs	HAJER, Jan
11:35	[112] Looking Forward to New Physics with the Forward Physics Facility	KLING, Felix
11:55	[89] Portal Chiral Perturbation Theory	Dr KLOSE, Philipp
12:10	[122] GAZELLE, a long-baseline detector for Belle II	SCHÄFER, Ruth

Friday, 24 September 2021

Parallel Session: Phenomenology - Seminar room 4 (a+b) (09:15 - 10:30)

-Conveners: Bibhushan Shakya; Elina Fuchs; Fady Bishara

time	[id] title	presenter
09:15	[116] Mesogenesis	ELOR, Gilly
09:30	[39] SU(6) Gauge-Higgs Grand Unification	BALLY, Andreas
09:45	[61] Small size instanton effects in composite axion models	KIVEL, Alexey
10:00	[78] Charming ALPs	SCHERB, Christiane
10:15	[88] The ν DFSZ Axion model dubbed 2hdSMASH	MATLIS, Michael Maxim