



# 12th Annual Meeting of the Helmholtz Alliance "Physics at the Terascale"

## Tuesday, 27 November 2018

### Physics beyond the SM - Auditorium (09:00 - 10:42)

-Conveners: Stefan Liebler; Alexander Mann; Roman Kogler; Stefan Vogl; Swagata Mukherjee; Katharina Bierwagen; Jory Sonneveld

time	[id] title	presenter
09:00	[63] What can (non-) multilepton searches tell us about SUSY?	LOZANO, Victor Martin
09:17	[64] Search for disappearing tracks with CMS	Mr KUTZNER, Viktor
09:34	[65] Searches for direct stau production at the LHC	KRIETER, Ferdinand
09:51	[66] Characterizing Light Higgsinos from Natural SUSY at the ILC	Dr BERGGREN, Mikael
10:08	[67] Searches for electroweak production of supersymmetric gauginos and sleptons at LHC	ZINONOS, Zinonas

### Physics beyond the SM: BSM Higgs - Auditorium (11:00 - 12:59)

-Conveners: Matthias Schröder; Robert Harlander; Jenny List; Sarah Heim; Stefan Liebler; Alexander Mann; Roman Kogler; Stefan Vogl; Swagata Mukherjee; Katharina Bierwagen; Jory Sonneveld

time	[id] title	presenter
11:00	[41] Light Singlets and Higgs Inflation at the LHC	Dr HOLLIK, Wolfgang Gregor
11:17	[42] CMS MSSM Hbb analysis	WALSH, Roberval
11:34	[43] Benchmark Scenarios for MSSM Higgs Boson Searches at the LHC	BAHL, Henning
11:51	[44] Testing BSM Higgs sectors with HiggsBounds and HiggsSignals	STEFANIAK, Tim
12:08	[45] How to study models with several Higgs bosons	MANIATIS, Markos
12:25	[46] Hybrid calculation of the lightest CP-even Higgs mass in the MSSM in FlexibleSUSY	KWASNITZA, Thomas
12:42	[47] The light MSSM Higgs mass: merging fixed order and resummation at three loop	KLAPPERT, Jonas

### Physics beyond the SM - SR 4b (14:00 - 16:33)

-Conveners: Stefan Liebler; Alexander Mann; Roman Kogler; Stefan Vogl; Swagata Mukherjee; Katharina Bierwagen; Jory Sonneveld

time	[id] title	presenter
14:00	[68] ZEUS talk on limits on contact interactions from HERA data	Mr TURKOT, Oleksii
14:17	[75] Search for resonant $t\bar{t}b$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV	KARAVDINA, Anastasia
14:34	[72] ATLAS results on vector-like quark searches	VALERY, Loic
14:51	[74] Search for single production of vector-like quarks decaying into $Wb$ in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector	Mr BANDYOPADHYAY, Anjishnu

15:08	[76] Search for $b^*$ decaying to $tW$ in the $l+jets$ final state	FROEHLICH, Alexander
15:25	[73] First search for single production of vector-like $B$ quarks in the $B \rightarrow bH$ decay channel with $H \rightarrow \gamma\gamma$	WENDLAND, Bjoern
15:42	[69] Searches for pair-production of leptoquarks coupled to third-generation quarks with CMS	Mr REIMERS, Arne Christoph
15:58	[70] Search for dark matter in events with an energetic jet and large missing transverse momentum using the ATLAS detector	REISS, Andreas
16:15	[71] Prospects for a mono-Z search for dark matter with CMS at the HL-LHC	ALBERT, Andreas