

The 15th International Workshop on Tau Lepton Physics

Monday, 24 September 2018

Session: Welcome (13:00 - 13:30)

time	[id] title	presenter
13:00	[89] Welcome	BENTVELSEN, Stan
13:20	[90] Organisation issues	IGONKINA, Olga

Session: Tau properties - I (13:30 - 15:00)

-Conveners: Yuping Guo

time	[id] title	presenter
13:30	[91] Report from the HFLAV group	LUSIANI, Alberto
14:00	[92] Latest Belle results on tau decays	JIN, Yifan
14:20	[94] Measurement of the branching fractions $B(\tau \rightarrow K \pi^0 \nu)$, $n=0,1,2,3$, and $B(\tau \rightarrow \pi \pi^0 \nu)$, $n=3,4$	LUECK, Thomas
14:40	[93] Prospects for τ lepton physics at Belle II	HERNANDEZ VILLANUEVA, Michel

Session: Tau properties - II (15:30 - 18:10)

-Conveners: Matthias Jamin

time	[id] title	presenter
15:30	[98] Tau mass measurement at BESIII	ZHANG, Jianyong
15:50	[95] Implications of tau data for CP violation in K decays	RODRÍGUEZ-SÁNCHEZ, Antonio
16:10	[97] The status of the inclusive tau determination of V_{us}	MALTMAN, Kim
16:30	[170] A no-go theorem for non-standard explanations of the $\tau \rightarrow K S \pi \nu$ CP asymmetry	HOFERICHTER, Martin
16:50	[100] Non-standard interactions in $\tau^- \rightarrow (\pi \pi^0, \pi \eta) \nu_\tau$	LOPEZ CASTRO, Gabriel
17:10	[101] New Physics bounds from Hadronic Tau decays	GONZALEZ-ALONSO, Martin
17:30	[99] NLO prediction for the decays $\tau \rightarrow \ell \ell' \nu \bar{\nu}$ and $\mu \rightarrow e e e \nu \bar{\nu}$	FAEL, Matteo
17:50	[96] BSM $b \rightarrow s \tau^+ \tau^-$	CAPDEVILA, Bernat

Tuesday, 25 September 2018

Session: Flavor puzzles (08:30 - 10:20)

-Conveners: Gregory Max Ciezarek

time	[id] title	presenter
08:30	[121] Theory status	FAJFER, Svjetlana
09:00	[124] LFU tests with semitauonic decays at LHCb	BENSON, Sean
09:20	[123] Exploiting tau polarisation in $B \rightarrow D^* \tau \nu$	WESTHOFF, Susanne
09:40	[122] Probing LNU with (semi)leptonic B decays	TETLALMATZI-XOLOCOTZI, Gilberto
10:00	[125] LNU, LNV and LFV at Belle II	ROSTOMYAN, Ami

Session: Lepton Flavor Violation with taus and muons (10:40 - 12:40)

-Conveners: Robert Fleischer

time	[id] title	presenter
10:40	[115] Leptonic LFV theory	SIGNER, Adrian
11:10	[119] LFV and neutrino mass	TEIXEIRA, Ana M.
11:40	[117] Meson LFV decays ($X \rightarrow e + \mu$) in LHCb	VAN VEGHEL, Maarten
12:00	[118] Test lepton flavor universality with (semi)leptonic D decays at BESIII	ZHANG, Sifan
12:20	[193] L to $l^{(*)} l + l$ LFV decays in the SM with massive neutrinos	Dr HERNÁNDEZ TOMÉ, Gerardo

Session: Standard Model measurements with taus at the LHC (14:00 - 15:55)

-Conveners: Keti Kaadze

time	[id] title	presenter
14:00	[102] Hadronic Tau reconstruction and identification performance in ATLAS and CMS	LE BIHAN, Anne-Catherine
14:25	[106] Monte Carlo, fitting, Machine Learning for Tau leptons	WAS, Zbigniew Andrzej
14:45	[103] Tau polarization measurement in $Z \rightarrow \tau\tau$ at LHC	WINTER, Benedict Tobias
15:05	[104] Measurements of Higgs boson decays to leptons with the ATLAS detector	SCHILDGEN, Lara Katharina
15:30	[105] Measurements of Higgs properties with the $H \rightarrow \tau\tau$ decay at CMS	CHOUDHURY, Somnath

Session: Beyond Standard Model measurements with taus at LHC - I (16:20 - 18:45)

-Conveners: Luca Fiorini

time	[id] title	presenter
16:20	[112] Higgs LFV involving taus (theory)	WEILAND, Cedric
16:40	[113] Search for lepton flavour violation with the ATLAS detector	LE, Brian
17:00	[116] Search for lepton flavour violation with the CMS detector	WANG, Jian
17:20	[120] LHC searches motivated by recent B-anomalies	FAROUGHY, Darius

17:40	[107] Leptoquark searches and high mass phenomena with taus at CMS	PADEKEN, Klaas
18:00	[108] Searches for new phenomena with tau leptons in the final state using the ATLAS detector	KUZE, Masahiro
18:20	[165] New physics opportunities in the tau sector	SONI, AMARJIT

Wednesday, 26 September 2018

Session: Beyond Standard Model measurements at the LHC - II (08:30 - 09:30)

-Conveners: Cristina Galea

time	[id] title	presenter
08:30	[109] Di-Higgs searches in final states with tau leptons at the LHC	BOKAN, Petar
08:50	[110] Searches for additional Higgs bosons decaying to tau leptons at the LHC	CAPUTO, Claudio
09:10	[111] SUSY searches with taus at the LHC	LYU, Feng

Session: Neutrino - I (09:50 - 12:15)

-Conveners: Vittorio Paolone

time	[id] title	presenter
09:50	[126] Neutrinoless Double Beta Decay Overview	CARDANI, Laura
10:20	[127] Neutrinoless Double Beta Decay - Theory and Connection to Tau	CIRIGLIANO, Vincenzo
10:50	[128] Solar Neutrino Physics with Borexino	POCAR, Andrea
11:10	[129] KATRIN First Tritium	HANNEN, Volker
11:30	[133] Sterile neutrinos (including SBND program)	ESTEBAN, Ivan
11:55	[134] Recent Results from MicroBooNE	TANG, Wei

Session: Neutrino - II (13:30 - 15:00)

-Conveners: Paul De Jong

time	[id] title	presenter
13:30	[131] Recent results from reactor antineutrino experiments	SEO, Hyunkwan
13:50	[130] Final results of the OPERA experiment on nu-tau appearance in the CNGS neutrino beam	GALATI, Giuliana
14:10	[132] Beams T2K, NOvA and resulting picture	FERNANDEZ MENENDEZ, Pablo
14:35	[135] Cosmic neutrinos: IC, KM3NeT, ANTARES, AUGER	VAN EIJK, Daan

Thursday, 27 September 2018

Session: g-2 theory (08:30 - 10:05)

-Conveners: **Mattia Bruno**

time	[id] title	presenter
08:30	[139] Introduction	MARCIANO, William
09:15	[140] Hadronic vacuum polarization	LEHNER, Christoph
09:40	[141] Hadronic light-by-light	MEYER, Harvey

Session: g-2 experiments (10:30 - 13:00)

-Conveners: **Charles Timmermans**

time	[id] title	presenter
10:30	[143] Historical Overview	ROBERTS, Bradley Lee
11:00	[144] E989 @ FNAL	DRIUTTI, Anna
11:20	[145] E34 @ KEK	MIBE, Tsutomu
11:40	[146] Auxiliary measurements, esp. mumu/mup in Muonium; MuSEUM experiment	SHIMOMURA
12:00	[147] Search for the Electric Dipole Moment and anomalous magnetic moment of the tau lepton at tau factories	CHEN, Xin
12:20	[148] Experimental input from e+e- machines to hadronic contribution to muon (g-2)	SHWARTZ, Boris
12:40	[149] e+e- for g-2 light-by-light	GUO, Yuping

Session: QCD (14:30 - 15:30)

-Conveners: **Elisabetta Pallante**

time	[id] title	presenter
14:30	[136] Alpha_s from lattice	SINT, Stefan
14:50	[137] The strong coupling from e+e- → hadrons	GOLTERMAN, Maarten
15:10	[138] Alpha_s from tau data	PICH, Antonio

Session: Muon experiments (16:00 - 18:00)

-Conveners: **Nicolo De Groot**

time	[id] title	presenter
16:00	[150] General features of LFV experiments with muons	KUNO, Yoshitaka
16:30	[151] The Mu3e Experiment at PSI	BRAVAR, Alessandro
16:50	[152] Searching for Muon to electron conversion : The Mu2e experiment at Fermilab	BONVENTRE, Richard
17:10	[153] mu-e conversion experiments in J-PARC	TESHIMA, Natsuki
17:30	[154] MEG final results and progress towards MEG-II	IWAMOTO, Toshiyuki

Friday, 28 September 2018

Session: Future detectors - I (08:30 - 10:00)

-Conveners: Kenji Inami

time	[id] title	presenter
08:30	[156] Tau physics at the High Luminosity LHC	PASSEMAR, Emilie
08:50	[155] Tau physics at CEPC/ILC	RUAN, Manqi
09:10	[157] Tau physics at FCC	DAM, Mogens
09:30	[159] GRAND: A Giant Radio Array for Neutrino Detection	TIMMERMANS, Charles

Session: Future detectors - II (10:20 - 11:40)

-Conveners: Marcus Matthias Morgenstern

time	[id] title	presenter
10:20	[160] Status of the DUNE Experiment	TONAZZO, Alessandra
10:40	[158] Super tau charm factory, HIEPA	HUANG, Guangshun
11:00	[161] Novosibirsk: tau-charm factory and di-muonium experiment	PIMINOV, Pavel
11:20	[162] SHIP	BONDARENKO, Kyrlo

Session: Poster presentations and summary talk (12:00 - 13:30)

-Conveners: Olga Igonkina

time	[id] title	presenter
12:00	[194] 4th place: Search for ultra-high energy neutrinos with the Pierre Auger Observatory	TRINI, Marta
12:10	[195] 3rd place: Study of Michel parameters in tau decays at Belle	EPIFANOV, Denis
12:20	[196] 2nd place: The Rare and Forbidden: Testing Physics Beyond the Standard Model with Mu3e	PERREVOORT, Ann-Kathrin
12:35	[197] 1st place: On isospin breaking in tau input for $(g-2)$ from Lattice QCD	BRUNO, Mattia
12:45	[164] Summary talk	EYDELMAN, Simon