



# 9th International Conference on New Frontiers in Physics (ICNFP 2020)

## Friday, 4 September 2020

### Plenary: Lectures - Room 1 (15:00 - 18:00)

time	[id] title	presenter
15:10	[239] Opening of the conference	
15:15	[240] The Higgs boson at the LHC	OLIVARES, Sebastian
16:00	Coffee Break	
16:30	[159] Higgs Hidden/Dark Sector Physics	LAGOURI, Theodota
17:15	[150] Machine Learning in LHCb	DELANEY, Blaise

### Plenary (18:00 - 20:00)

time	[id] title	presenter
18:00	[252] Talk on History of OAC Chapel and Meaning of Blessing. Blessing	KARKALA, Katerina
19:15	[253] History of Crete	LARENTZAKIS, Emanuela

# Saturday, 5 September 2020

## **Plenary - Room 1 (08:30 - 10:00)**

time	[id] title	presenter
08:30	[241] Opening of the conference	
09:00	[128] Search for di-Higgs production at 13 TeV and prospects for HL-LHC	SCHAARSCHMIDT, Jana

## **Plenary: Machine Learning - Room 1 (15:30 - 16:00)**

time	[id] title	presenter
15:30	[10] Can Machine Learning Rid Us Of Systematic Uncertainties?	DORIGO, Tommaso

## **Plenary: High Energy Particle Physics - Room 1 (17:45 - 18:50)**

time	[id] title	presenter
17:45	[78] Higgs physics at CLIC	VUKASINOVIC, Natasa
18:20	[63] Overview on the ILC project and political situation in Japan	MURAYAMA, Hitoshi

# Monday, 7 September 2020

## Plenary - Room 1 (08:30 - 10:30)

time	[id] title	presenter
08:30	[141] Weak gravity conjecture in an accelerating Universe	Prof. ANTONIADIS, Ignatios
09:00	[218] Quiver Theory and Gravitational Waves	FRAMPTON, Paul
09:30	[146] CMS Highlights	VENDITTI, Rosamaria
10:00	[174] What does quantum mechanics conserve?	ROHRLICH, Daniel

## Plenary: High Energy Particle Physics - Room 1 (11:00 - 13:30)

time	[id] title	presenter
11:00	[126] ATLAS Searches for Resonances Decaying to Boson Pairs	Mr XU, Zhongyukun
11:25	[127] Searches for BSM Higgs at ATLAS	MAERKER, Max
11:50	[109] Search for rare decays of the observed Higgs boson and additional Higgs bosons with the ATLAS detector	KAWAGUCHI, Tomomi
12:15	[125] Searches for electroweak production of supersymmetric particles with the ATLAS detector	SHARMA, Abhishek
12:40	[124] Searches for strong production of supersymmetric particles with the ATLAS detector	ZHU, Chenzheng
13:05	[157] CMS SUSY Searches	Mr SARKAR, Uttiya

## Plenary: High Energy Particle Physics - Room 1 (16:30 - 18:35)

time	[id] title	presenter
16:30	[115] Vector-boson fusion, vector-boson scattering and diboson production at ATLAS	ZHOU, Bing
16:55	[179] Dark matter searches at CMS	KILMINSTER, Ben
17:20	[120] Dark Matter searches with the ATLAS Detector	CARLSON, Ben
17:45	[116] Measurements of photon-photon fusion at ATLAS	MCCORMACK, William Patrick
18:10	[117] ATLAS measurement of CP Violation with Beauty mesons	NIKOLAENKO, Vladimir

# Tuesday, 8 September 2020

## Plenary - Room 1 (08:30 - 10:30)

time	[id] title	presenter
08:30	[207] Future physics with CMS	SAVIN, Alexander
09:00	[72] Physics Prospects of PANDA at FAIR	KÜMMEL, Miriam
09:30	[185] Wigner - Weyl calculus in quantum field theory	ZUBKOV, Mikhail
10:00	[19] Electric conductivity in gauge theory with finite-density dynamical fermions	BUIVIDOVICH, Pavel

## Plenary - Room 1 (18:35 - 19:00)

time	[id] title	presenter
18:35	[87] PHENIX Heavy Ion Overview	SMITH, Krista

**Wednesday, 9 September 2020****Plenary - Room 1 (08:30 - 10:30)**

time	[id] title	presenter
08:30	[83] Highlights from the Pierre Auger Observatory	Dr YUSHKOV, Alexey
09:00	[57] Experimental searches for rare alpha decays	Prof. BERNABEI, Rita
09:30	[94] QGP at finite chemical potential in and out-of equilibrium	BRATKOVSKAYA, Elena
10:00	[107] Cluster formation in high energy heavy ion collisions	Prof. AICHELIN, Joerg

**Plenary - Room 1 (16:30 - 18:35)**

time	[id] title	presenter
16:30	[111] Highlights of top-quark production cross-section measurements with ATLAS at LHC: from precision to rarity	PANIZZO, Giancarlo
16:55	[182] Searches for heavy resonances decaying into leptons at CMS	BACHILLER PEREA, Irene
17:20	[217] Exotica searches at CMS	THOMAS, Laurent
17:45	[100] Higgs (CMS)	SEIDITA, Roberto
18:10	[108] Measurement of Higgs boson properties using the ATLAS detector	MONTALBANO, Alyssa Rae

# Thursday, 10 September 2020

## Plenary - Room 1 (08:30 - 10:30)

time	[id] title	presenter
08:30	[123] Searches for New Long-lived Particles with the ATLAS detector	OIDE, Hideyuki
09:30	[90] Status of Advanced Virgo and upgrades before the next observing runs	DI PACE, Sibilla
10:00	[171] Probing dense QCD matter in the laboratory – The CBM experiment at FAIR	SENGER, Peter

# Friday, 11 September 2020

## Plenary - Room 1 (08:30 - 10:30)

time	[id] title	presenter
08:30	[50] LHCb: Heavy ion physics results and prospects	LITVINOV, Roman
09:00	[219] Shear viscosity of nucleons and pions in heavy-ion collisions at energies of NICA	ZABRODIN, Evgeny
09:30	[249] Dark Matter searches with Spectrum-Roentgen-Gamma (SRG) space observatory	GORBUNOV, Dmitry
10:00	[236] Weak measurements and light-matter interactions	Dr COHEN, Eliahu

## Plenary - Room 1 (11:00 - 13:25)

time	[id] title	presenter
11:00	[140] Searches for the hydrodynamic fluid in small collision systems at the LHC	ZHOU, You
11:30	[208] On duality between quantum statistical and field-theoretic approaches	Prof. PROKHOROV, G. Yu.
12:00	[68] Screening vs. confinement in 2-dimensional QCD with adjoint fermions	SMILGA, Andrei
12:30	[246] Closing of the conference	



# Thursday, 1 October 2020

**Plenary: Workshop on Physics at FAIR-NICA-SPS-BES/RHIC - Room 1 (14:30 - 16:05)**

time	[id] title	presenter
14:30	[283] Opening of extended session	
14:35	[276] The upgrade program of the BM@N experiment at NICA	SENGER, Peter
15:05	[225] Strangeness freeze-out in heavy-ion collisions at energies of BES/FAIR/NICA	BRAVINA, Larisa
15:35	[282] Scaling relations for anisotropic flow based on the data from beam energy scan experiments	Dr TARANENKO, Arkadiy

## Friday, 2 October 2020

### **Plenary: Workshop on Physics at FAIR-NICA-SPS-BES/RHIC - Room 1 (09:00 - 10:30)**

time	[id] title	presenter
09:00	[89] Overview of STAR experiment Results	Dr M. HAMED, Ahmed
09:30	[2] Heavy flavor and quarkonia production at RHIC	KABANA, Sonja
10:00	[271] Intermittency in a parametrically driven magnetic particle	Prof. LAROZE, David

### **Plenary: High Energy Particle Physics - Room 1 (11:00 - 13:00)**

time	[id] title	presenter
11:00	[222] Physics Performance at CMS	TOSI, Mia
11:30	[142] Recent CMS B physics results	SIMONE, Federica Maria
12:00	[221] Trigger at CMS	TOSI, Mia
12:30	[93] The Belle II experiment: status and prospect	BAUDOT, Jerome

### **Plenary: Heavy Ion Collisions and Critical Phenomena - Room 1 (13:00 - 13:30)**

### **Plenary: High Energy Particle Physics - Room 1 (15:15 - 15:45)**

time	[id] title	presenter
15:15	[290] Heavy Tetraquarks and Pentaquarks	KARLINER, Marek

### **Plenary: Closing of extended session - Room 1 (15:45 - 15:50)**

time	[id] title	presenter
15:45	[286] Closing of extended session	