

FRIDAY, 19TH FEBRUARY – AFTERNOON

SESSION 1

OPENING AND OUTREACH

14.30 – 14.40 Opening (10')

14:40 – 15:00 LIP Outreach Activities (20')

<i>Communication & Outreach report</i>	Catarina Espírito Santo	20'
--	-------------------------	-----

SESSION 2

EXPERIMENTAL PARTICLE PHYSICS WITH ACCELERATORS - LHC

15:00 – 15:50 CMS (50')

<i>Prospects for gamma-gamma exclusive production with CT-PPS</i>	Jonathan Hollar	10'
<i>b physics measurements</i>	Nuno Leonardo	10'
<i>Searches for stop and stau production</i>	Pedrame Bargassa	10'
<i>Searches for charged Higgs production</i>	Pietro Vischia	10'
<i>WW cross-section measurement and missing ET</i>	Lara Lloret	10'

15:50 – 16:40 ATLAS (50')

<i>Introduction and group presentation</i>	Patricia Conde	5'
<i>FCNC in top quark decays</i>	Bruno Galhardo	6'
<i>Search for vector-like quarks</i>	Juanpe Araque	6'
<i>Global Sequential Calibration for the ZH (H->bb) search</i>	Mario Sousa	6'
<i>WH->l nu bb searches using a BDT</i>	Rute Pedro	6'
<i>DCS of TileCal and Forward Detectors</i>	Luís Seabra	6'
<i>Jet trigger algorithms with GPUs for the ATLAS Upgrade</i>	Ademar Delgado	6'

16.40 – 17.10 *Coffee Break*

17:10 – 17:30 LHC Phenomenology (20')

<i>LHC Phenomenology Studies at LIP</i>	António Onofre	20'
---	----------------	-----

17:30 – 17:50 **Overview & Prospects**

SESSION 3

COMPUTING

17:50–18:30 Distributed Computing and Digital Infrastructures & Advanced Computing (40')

LIP Computing Activities	Jorge Gomes	40'
--------------------------	-------------	-----

18:30 – 18:45 **Overview & Prospects**

SATURDAY, 20TH FEBRUARY , MORNING

SESSION 4

UNDERGROUND PHYSICS - DARK MATTER AND NEUTRINO PHYSICS

9:00 – 9:25 *Dark Matter Physics (25')*

<i>LUX: The world's most sensitive WIMP detector</i>	Paulo Brás	15'
<i>The next generation dark matter detector: LZ</i>	Francisco Neves	10'

9:25 – 9:50 *Neutrino Physics (25')*

Updates on the SNO+ experiment	Gersende Prior	25'
--------------------------------	----------------	-----

9:50 – 10:05 **Overview & Prospects**

SESSION 5

SPACE & ASTROPHYSICS

10:05 – 10:40 *Radiation Environment Studies and Applications for Space Missions (35')*

<i>Space Radiation Environment & Effects</i>	Marco Pinto	20'
<i>X- and gamma-ray focal planes for future space missions</i>	Jorge Maia	15'

10:40 – 11:10 *Coffee Break*

11:10 – 11:20 *Experimental Nuclear Astrophysics (10')*

<i>Experimental efforts in nuclear reactions and astrophysics</i>	Daniel Galaviz	10'
---	----------------	-----

11:20 – 11:35 **Overview & Prospects**

SESSION 6

ASTROPARTICLE PHYSICS - COSMIC RAY PHYSICS

11:35 – 12:20 *High Energy Cosmic Rays (45')*

<i>Auger: Showers and Physics</i>	Francisco Diogo	20'
<i>MARTA: Muons at the pampa</i>	Ricardo Luz	15'
<i>LATTES: a next generation detector for γ-ray astrophysics in South America</i>	Ruben Conceição	10'

12:20 – 12:35 **Overview & Prospects**

12:35 – 14:30 *Lunch (included)*

SATURDAY, 20TH FEBRUARY , AFTERNOON

SESSION 7

EXPERIMENTAL PARTICLE PHYSICS WITH ACCELERATORS - STRUCTURE OF HADRONIC MATTER PHYSICS

14:30 – 15:00 COMPASS (30')

<i>COMPASS & TMD PDFs</i>	Márcia Quaresma	11'
<i>Results on COMPASS longitudinal polarised data</i>	Sofia Nunes	9'
<i>COMPASS DCS</i>	Christophe Pires	10'

15:00 – 15:15 HADES (15')

<i>Exploring the dense and cold matter</i>	Luis Silva	15'
--	------------	-----

15:15—15:30 **Overview & Prospects**

SESSION 8

DETECTORS FOR PARTICLE AND NUCLEAR PHYSICS

15:30 – 16:30 Detectors for Particle and Nuclear Physics (60')

<i>RPCs</i>	Luís Lopes	10'
<i>Neutron detectors</i>	Luís Margato	10'
<i>High pressure Xenon doped mixtures for the NEXT collaboration</i>	Pedro Encarnação + Francisco Rolo	20'
<i>Liquid Xenon R&D</i>	Vitaly Chepel	10'
<i>Workshop & Detectors LAB.</i>	Alberto Blanco + Nuno Dias	10'

16:30 – 16:45 **Overview & Prospects**

16:45 – 17:15 *Coffee break*

LIP SCIENTIFIC COUNCIL MEETING (17:15-19:15)

SUNDAY, 21ST FEBRUARY , MORNING

SESSION 9

INSTRUMENTS AND METHODS FOR BIOMEDICAL APPLICATIONS

9:30 – 10:30 Instruments and Methods for Biomedical Applications (60´)

<i>RPC-PET</i>	Paulo Fonte	15´
<i>Scintillator dosimeter for radiology + Measurements and monitoring radon system</i>	Luis Peralta	15´
<i>Latest results from OrthoCT imaging: from simulations to experimental preparation</i>	Hugo Simões	15´
<i>Gamma cameras with auto-calibration capability</i>	João Marcos	15´

10:30 – 10:45 Spin-off Technologies for Cancer Diagnostics at TagusLIP Laboratory (15´)

<i>Results with SiPM based PET detectors</i>	Tahereh Niknejad	15´
--	------------------	-----

10:45 – 11:00 **Overview & Prospects**

11:00 – 11:30 *Coffee break*

SESSION 10

HIGHER EDUCATION AND TRAINING + CLOSING

11:30 – 11:55 LIP Doctoral Programmes (25´)

<i>DAEPHYS</i>	Isabel Lopes	10´
<i>IDPASC and Innovative Training Networks</i>	Catarina Espírito Santo	15´

11:55 – 12:10 LIP in numbers (by CC secs.)

12:10 – 12:30 **General Overview & Closing**

12:30 – 14.00 *Lunch (included)*