



# NePSi 23

## Wednesday, 15 February 2023

### Senior Session: g-2 - Aula Magna - Dipartimento di Fisica (09:00 - 10:00)

time	[id] title	presenter
09:00	[11] Data-driven calculations of hadronic contributions to $(g-2)_{\mu}$	COLANGELO, Gilberto
09:30	[44] Beam dynamics corrections to the anomalous spin precession frequency in the Muon g-2 experiment at Fermilab	KIM, On

### Senior Session: g-2 - Aula Magna - Dipartimento di Fisica (11:10 - 12:10)

time	[id] title	presenter
11:10	[48] The RBC/UKQCD g-2 program	LEHNER, Christoph
11:40	[59] The Muon g-2 Experiment: A Field Trip	WINTER, Peter

### Senior Session: g-2 - Aula Magna - Dipartimento di Fisica (14:10 - 15:30)

time	[id] title	presenter
14:10	[60] The Strong2020 and RadioMonteCarlow activities	VENANZONI, Graziano
14:30	[53] Window contributions to the Muon HVP from twisted mass lattice QCD	SANFILIPPO, Francesco
15:00	[58] The MUonE experiment	ABBIENDI, Giovanni

### Senior Session: g-2 - Aula Magna - Dipartimento di Fisica (16:40 - 18:10)

time	[id] title	presenter
16:40	[49] Measurement of the anomalous spin precession frequency in the Muon g-2 experiment at Fermilab	SORBARA, Matteo
17:10	[88] Muon g-2 from the BMW collaboration	SZABO, Kalman
17:40	[54] Simulations for the Muon g-2 Experiment at Fermilab	DRIUTTI, Anna

# Thursday, 16 February 2023

## Senior Session: Flavour Physics Tensions - Aula Magna - Dipartimento di Fisica (08:30 - 09:30)

time	[id] title	presenter
08:30	[62] A few considerations regarding the exclusive $B \rightarrow c \ell \bar{\ell} \nu$ decays	BECIREVIC, Damir
09:00	[67] Highlights from the LHCb experiment	TUCI, Giulia

## Senior Session: Flavour Physics Tensions - Aula Magna - Dipartimento di Fisica (10:50 - 12:20)

time	[id] title	presenter
10:50	[65] $B \rightarrow D^{(*)} \ell \bar{\nu}$ from lattice QCD and its impact on $V_{cb}$ and $R(D^{(*)})$	VAQUERO, Alejandro
11:20	[66] Much ado about nothing	MARTINELLI, Guido
11:50	[110] Lattice determination of the spectral function for $D_{s1} \rightarrow \ell \bar{\nu}_{\ell} \gamma^{*}$ decays	GAGLIARDI, Giuseppe

## Senior Session: Flavour Physics Tensions - Aula Magna - Dipartimento di Fisica (14:20 - 15:20)

time	[id] title	presenter
14:20	[70] Dilaton & Scale Invariance	DEL DEBBIO, Luigi
14:50	[76] Elementary particle mass generation without Higgs	ROSSI, Giancarlo

# Friday, 17 February 2023

## **Senior Session: Topology and Axion Phenomenology - Aula Magna - Dipartimento di Fisica (09:10 - 10:10)**

time	[id] title	presenter
09:10	[102] Status and recent updates on experimental searches for axions and Axion-Like Particles at B factories	DE NUCCIO, Michael
09:40	[78] The landscape of QCD axion models	DI LUZIO, Luca

## **Senior Session: Topology and Axion Phenomenology - Aula Magna - Dipartimento di Fisica (10:40 - 12:10)**

time	[id] title	presenter
10:40	[81] QCD Axion vs Lattice QCD: Past successes and future challenges	VILLADORO, Giovanni
11:10	[82] The cosmic evolution of the QCD axion, and lattice simulations	LOMBARDO, Maria Paola
11:40	[106] Experimental approaches in the search for low mass axion-like particles	LAMANNA, Gianluca

## **Senior Session: Topology and Axion Phenomenology - Aula Magna - Dipartimento di Fisica (14:00 - 15:00)**

time	[id] title	presenter
14:00	[80] Photon fusion and tau g-2 measurements in ATLAS	VERDUCCI, Monica
14:30	[103] Accidental Peccei-Quinn symmetry and composite axions from chiral gauge theories	PODO, Alessandro