

Conference on Neutrino and Nuclear Physics (CNNP2020) Arabella Hotel and Spa, South Africa, 24-28 February 2020

Monday 24 February 2020

Invited Talks (09:00-10:30)

-Conveners: Chair: Francesco Cappuzzello

time	[id] title	presenter
09:00	[80] Recent results and perspectives on beta decay, double beta decay and lepton flavour violation	ZUBER, Kai
09:30	[35] Nuclear processes and effective weak couplings	SUHONEN, Jouni
10:00	[76] The role of neutrino-nucleus reactions in supernova nucleosynthesis	LANGANKE, Karlheinz

Invited Talks (11:00-13:00)

-Conveners: Chair: Elena Aprile

time	[id] title	presenter
11:00	[9] New results from the CUORE experiment	BENATO, Giovanni
11:30	[10] Status of the SuperNEMO Experiment	MINOTTI, Alessandro
12:00	[70] The nEXO double-beta decay experiment	GRATTA, Giorgio
12:30	[8] MAJORANA, LEGEND, and the future of the search for Neutrinoless Double-Beta Decay in Ge-76	HERVAS, David

Invited Talks (16:10-17:10)

-Conveners: Chair: Federico Nova

time	[id] title	presenter
16:10	[33] Neutrinos from CCSN and the contribution of nuclear experiments	GULMINELLI, Francesca
16:40	[28] HALO-1kT - Status and Design	VIRTUE, Clarence

Tuesday 25 February 2020

Invited Talks (08:30-10:30)

-Conveners: Chair: Kai Zuber

time	[id] title	presenter
08:30	[81] Hunting Down Solar Neutrinos; an Extraordinary South African Particle Physics Safari.	SIDERAS-HADDAD, Elias
09:00	[40] First results from the neutrino mass experiment KATRIN	WEINHEIMER, Christian
09:30	[4] Precision mass measurements for nuclear and neutrino physics studies	BLAUM, Klaus
10:00	[21] The Electron Capture in ^{163}Ho experiment, ECHo	CHRISTIAN ENSS FOR THE ECHO COLLABORATION

Invited Talks (11:00-13:00)

-Conveners: Chair: Karlheinz Langanke

time	[id] title	presenter
11:00	[71] Probing Dark Energy with the SKA in Africa	MAARTENS, Roy
11:30	[74] Dark Matter Direct Detection with Noble Liquids	APRILE, Elena
12:00	[6] Annual modulation with DAMA/LIBRA-phase2	BELLI, Pierluigi
12:30	[63] COSINE experiment - A WIMP dark matter search experiment with NaI(Tl) detectors	KIM, Yeongduk

Invited Talks (16:30-17:30)

-Conveners: Chair: Clarence Virtue

time	[id] title	presenter
16:30	[109] A high precision narrow-band neutrino beam: the ENUBET project	LONGHIN, Andrea
17:00	[103] LiquidO detector development	HARTNELL, Jeff

Wednesday 26 February 2020

Invited Talks (08:30-10:30)

-Conveners: Chair: Christian Enss

time	[id] title	presenter
08:30	[77] Roles of Neutrinos in Explosive Nucleosynthesis of Supernovae and Neutron-Star Mergers and Cosmic Evolution	KAJINO, Taka
09:00	[73] First-forbidden transitions in the reactor antineutrino flux and spectral anomalies	HAYEN, Leendert
09:30	[104] The CONUS Experiment and future potential of coherent neutrino scattering	LINDNER, Manfred
10:00	[69] What we can learn from CEvNS? (CEvNS - Coherent Elastic Neutrino Nucleus Scattering)	EFREMENKO, Yuri

Invited Talks (11:00-13:00)

-Conveners: Chair: Horst Lenske

time	[id] title	presenter
11:00	[66] Majorana neutrino mass generation, $\nu\bar{\nu}\beta\beta$ -decay and nuclear matrix elements	SIMKOVIC, Fedor
11:30	[108] Nuclear Matrix Elements of neutrinoless double beta decay calculated by Monte Carlo Shell Model for ^{76}Ge and ^{136}Xe	OTSUKA, Takaharu
12:00	[105] Ab initio nuclear theory for beyond standard model physics	HOLT, Jason
12:30	[72] Theory of Double-Beta Decay from First Principles	ENGEL, Jonathan

Thursday 27 February 2020

Invited Talks (08:30-10:00)

-Conveners: Chair: Manfred Lindner

time	[id] title	presenter
08:30	[51] Neutrinos in DUNE: long-baseline oscillations and non-beam physics	KEMP, Ernesto
09:00	[43] Status of the T2K experiment	OYAMA, Yuichi
09:30	[114] Neutrino masses, mixings and electroweak nuclear physics	LISI, Eligio

Invited Talks (10:30-12:30)

-Conveners: Chair: Jouni Suhonen

time	[id] title	presenter
10:30	[102] Benchmarking aspects of weak interaction physics via precision beta decay spectroscopy and two-nucleon transfer reactions	TRIAMBAK, Smarajit
11:00	[106] Recent results on nuclear reactions of interest for neutrinoless double beta decay at INFN-LNS within the NUMEN project	CAVALLARO, Manuela
11:30	[7] Heavy ion charge exchange reactions as probes for nuclear β -decay	LENSKE, Horst
12:00	[65] Status of the Mo-100 based AMoRE neutrinoless double beta decay experiment	KIM, Hong Joo

Invited Talks (15:10-16:40)

-Conveners: Chair: Francesca Gulminelli

time	[id] title	presenter
15:10	[68] Solar Models and Neutrino: where do we stand?	SERENELLI, Aldo
15:40	[36] Status and perspectives of the Hyper-Kamiokande project	NOVA, Federico
16:10	[16] Results and future perspectives of Borexino	CAMINATA, Alessio

Friday 28 February 2020

Invited Talks (10:50-12:50)

-Conveners: Chair: Takaharu Otsuka

time	[id] title	presenter
10:50	[115] Quenching of the spin-isospin response in nuclei	VON NEUMANN-COSEL, Peter
11:20	[107] Nuclear structure observables to shed light on neutrinoless double-beta decay	MENENDEZ, Javier
11:50	[12] Nuclear responses for double beta decay and muon capture	JOKINIEMI, Lotta
12:20	[5] Study of kinematic factors in double-beta decay	STOICA, Sabin