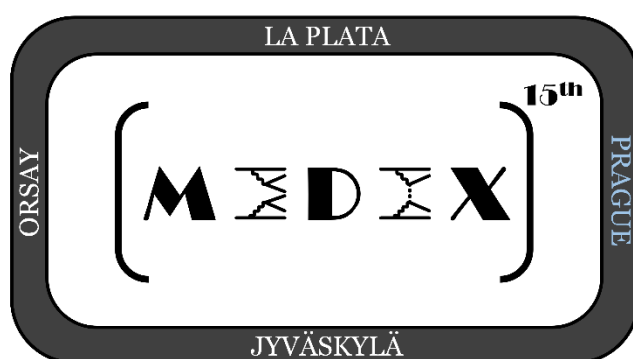


15th MEDEX'25

Prague, Czech Republic
June 23 – 27, 2025



June 23 – 27, 2025

June 23, 2025 (IEAP CTU in Prague)

Time	Speaker	Title
<i>Chair: O. Civitarese</i>		
08:45 – 09:30		REGISTRATION
09:30 – 09:45	Organizers	Opening of the MEDEX'25 conference
09:45 – 10:15	1. Jouni Suhonen	New probes of rates of neutrinoless double beta decays
10:15 – 10:45	Coffee break	
10:45 – 11:15	2. Daniel Castillo Garcia	Precision double-beta nuclear matrix elements
11:15 – 11:45	3. Sabin Stoica	Calculation of kinematic factors for beta and double-beta decays
11:45 – 12:15	4. Lukáš Graf	Loop Effects in Probing Lepton Number Violation
12:15 – 13:45	Lunch	
<i>Chair: F. Danevich</i>		
13:45 – 14:15	5. Mattia Beretta	Latest results from the CUORE experiment
14:15 – 14:45	6. William Quinn	The first results of the LEGEND-200 detector
14:45 – 15:15	7. Alice Leoncini	New results of the experiment to search for double beta decay of ^{106}Cd using $^{106}\text{CdWO}_4$ scintillator
15:15 – 15:45	8. Hong Joo Kim	Status and prospect of GRANDE
15:45 – 16:15	Coffee break	
16:15 ~ 17:30		Round-Table Discussion (Leader: O. Civitarese)

June 24, 2025 (IEAP CTU in Prague)

Time	Speaker	Title
<i>Chair: J. Suhonen</i>		
09:15 – 09:45	9. Javier Menendez	Second-order processes: a window into $0\nu\beta\beta$ decay
09:45 – 10:15	10. Vaisakh Plakkot	Pinning Down Two Right-Handed Neutrinos with Neutrinoless Double Beta Decay
10:15 – 10:45	Coffee break	
10:45 – 11:15	11. Osvaldo Civitarese	QRPA and PQRPA studies of ordinary muon capture processes
11:15 – 11:45	12. Yilong Yang	Relativistic chiral effective field theory for neutrinoless double beta decay
11:45 – 12:15	13. Latsamy Xayavong	A new possibility for experimental tests of nuclear matrix elements in double beta decay
12:15 – 13:45	Lunch	
<i>Chair: G. Zuzel</i>		
13:45 – 14:15	14. Veronika Palušová	NuDoubt++: Search for Double Beta Plus Decays with a Hybrid Opaque Scintillation Detector
14:15 – 14:45	15. Aravind Remesan Sreekala	Validating LEGEND-200 detector model with calibration data using Monte Carlo simulations
14:45 – 15:10	16. Léonard Imbert	Sensitivity of the CUPID experiment to $0\nu\beta\beta$ decay of ^{100}Mo
15:10 – 15:30	17. Léonard Imbert	Development of 3d printable scintillating plastic for bolometric $0\nu\beta\beta$ decay experiments
15:30 – 16:00	Coffee break	
16:00 ~ 17:15		Round-Table Discussion (Leader: J. Suhonen)
19:00	SOCIAL DINNER	

June 25, 2025 (IEAP CTU in Prague)

Time	Speaker	Title
<i>Chair: J. Menendez</i>		
09:15 – 09:45	18. Dominik Starý	Theoretical uncertainties and beyond-Standard-Model signatures in double-beta decay spectra
09:45 – 10:15	19. Jun Terasaki	Effects of perturbation for transition operators of double- β decay on nuclear matrix element
10:15 – 10:45	Coffee break	
10:45 – 11:15	20. Saad el Morabit	Can Pions and Weak Magnetism in $2\nu\beta\beta$ Tell Us Something About BSM Physics?
11:15 – 11:45	21. Vasile-Alin Sevestrean	Theoretical Analysis of ^{97}Tc Electron Capture with Applications to Neutrino Mass Studies
11:45 – 12:15	22. Aagrah Agnihotri	Beta decay studies for Physics beyond the Standard Model
12:15 – 13:45	Lunch	
<i>Chair: V. Tretyak</i>		
13:45 – 14:15	23. Grzegorz Zuzel	LEGEND-1000 - a next generation detector for searches of $0\nu\beta\beta$ decay
14:15 – 14:45	24. Fedor Danevich	Double beta decay of ^{150}Nd to the excited levels of ^{150}Sm
14:45 – 15:15	25. Takumi Omori	Launch and operation of the PIKACHU experiment to search for double beta decay in ^{160}Gd
15:15 – 15:45	Coffee break	
15:45 ~ 17:00		Round-Table Discussion (Leader: J. Menendez)

June 26, 2025 (IEAP CTU in Prague)

Time	Speaker	Title
<i>Chair: L. Graf</i>		
09:15 – 09:45	26. Chandan Hati	EFT Approach to Radiative Neutrino Masses: Beyond Cut-off Regularisation
09:45 – 10:15	27. Fabian Esser	A classification of UV models for higher-dimensional SMEFT operators for neutrinoless double beta decay
10:15 – 10:45	Coffee break	
10:45 – 11:15	28. Jan Miśkiewicz	Two-neutrino $0^+ \rightarrow 0^+$ double beta decay of ^{48}Ca in the DFT-NCCI framework
11:15 – 11:45	29. Petr Veselý	Description of Double Beta Decay within EMPM and STDA
11:45 – 12:15	30. DongLiang Fang	Neutrinoless double beta decay NME for LRSM
12:15 – 13:45	Lunch	
<i>Chair: I. Stekl</i>		
13:45 – 14:15	31. Volodymyr Tretyak	Search for inelastic Dark Matter induced deexcitations of $^{178\text{m}2}\text{Hf}$ isomer in the LNGS underground laboratory
14:15 – 14:45	32. Nahuel Ferreiro Iachellini	The RES-NOVA observatory
14:45 – 15:15	33. Jooyoung Lee	Search for neutrinoless double beta decay of Sn-124 at Yemilab
15:15 – 15:45	34. Ke Han	Double beta decay with PandaX liquid xenon detectors
15:45 – 16:15	Coffee break	
16:15 ~ 17:30		Round-Table Discussion (Leader: L. Graf)

June 27, 2025 (IEAP CTU in Prague)

Time	Speaker	Title
<i>Chair: Hong Joo Kim</i>		
09:15 – 09:45	35. Hans Hoffmann	Measurement of the electron capture of ^{76}As
09:45 – 10:15	36. Doohyeok Lee	Measurement of New Ac-228 Isomers Using a Ra-228 Doped CeBr ₃ Scintillation Crystal
10:15 – 10:45	Coffee break	
10:45 – 11:15	37. Maroš Petro	Status of the SuperNEMO Experiment and sensitivity estimates to $0\nu\beta\beta$ and beyond
11:15 – 11:40	38. Babar Ali	Dark matter search with PICO bubble chambers
11:40 – 12:15		Round-Table Discussion (Leader: <i>F. Danevich</i>)
12:15 – 13:45	Lunch	
End of the conference!		