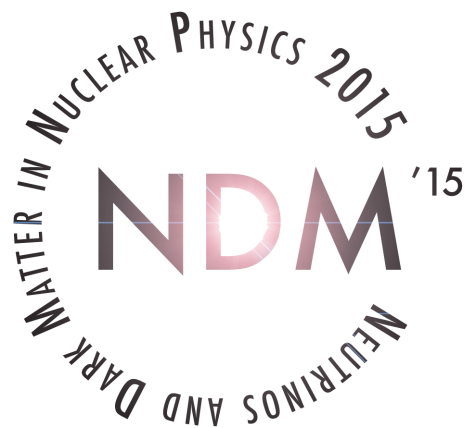


NDM15

Jyväskylä, Finland, June 1-5, 2015



PROGRAM

Sunday May 31st, 2015

19 : 00 – 22 : 00	WELCOME	RECEPTION	AT	HOTEL ALBA
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Monday June 1st, 2015

Chair: J. Suhonen	NEMF (FYS1)	
Time	Speaker	Title
8 : 30 – 8 : 45		Opening of NDM15
8 : 50 – 9 : 15	M. Nakahata	Recent results from Super-Kamiokande
9 : 20 – 9 : 45	S.-B. Kim	New results from RENO
9 : 55 – 10 : 15	K. Blaum	Penning trap mass spectrometry and neutrino physics
10 : 20 – 10 : 45	A. Kouchner	Mediterranean neutrino telescopes (ANTARES and KM3NeT)
10 : 50 – 11 : 00	Symposium	Photo
11 : 00 – 11 : 30	Coffee	Break

Chair: B. Balantekin	SSO (FYS1)		Chair: P. Belli	DM (YAA303)	
Time	Speaker	Title	Time	Speaker	Title
11 : 30 – 11 : 55	A. Arcones	H.E. nucleosynthesis	11 : 30 – 11 : 55	R. Cerulli	DAMA/LIBRA
12 : 00 – 12 : 25	E. Endeve	core-collapse SN	12 : 00 – 12 : 25	G. Mathews	Sterile ν DM
12 : 30 – 12 : 55	T. Hayakawa	ν processes in SN	12 : 30 – 12 : 55	A. Noble	DM with PICO
13 : 00 – 14 : 30	L	U	N	C	H
Chair: F. Simkovic	DBD (FYS1)		Chair: T. Suzuki	NNA (YAA303)	
Time	Speaker	Title	Time	Speaker	Title
14 : 30 – 14 : 55	J. Menendez	DBD NMEs	14 : 30 – 14 : 55	M. Haaranen	Rare β decays
15 : 00 – 15 : 25	T. Rodriguez	DBD NMEs with EDF	15 : 00 – 15 : 25	S. Nishimura	The r process
15 : 30 – 15 : 55	P.K. Rath	$0\nu\beta\beta$ decay	15 : 30 – 15 : 55	T. Shima	Weak nucl. processes
16 : 00 – 16 : 30		Coffee		Break	
Chair: G. Mathews	DM (FYS1)		Chair: M. Nakahata	NEMF (YAA303)	
Time	Speaker	Title	Time	Speaker	Title
16 : 30 – 16 : 45	A. Dobi	LUX-ZEPLIN exp.	16 : 30 – 16 : 55	C. Krauss	SNO+ physics
16 : 50 – 17 : 05	K. Kainulainen	A model for DM	17 : 00 – 17 : 25	V. Tretyak	DBD with CdWO ₄
17 : 10 – 17 : 25	A. Molinario	XENON100	17 : 30 – 17 : 55	A. Giuliani	R&D for CUPID
17 : 30 – 17 : 45	C. Nones	EDELWEISS-III exp.	18 : 00 – 18 : 15	J. Janicsko	GERDA exp.
17 : 50 – 18 : 05	F. Reindl	CRESST exp.	18 : 20 – 18 : 35	M. Mancuso	LUMINEU exp.
			18 : 40 – 18 : 55	K. Schäffner	LUCIFER exp.
19 : 00 – 22 : 00	Opportunity	to Enjoy	Nanosauna	Seminar	Session

DBD = Double Beta Decay, **DM** = Dark Matter, **NEMF** = Neutrino Experiments, Methods and Facilities, **NNA** = Neutrinos in Nucleosynthesis and Astrophysics, **SSO** = Supernova and Solar neutrinos, neutrino Oscillations

Tuesday June 2nd, 2015

Chair: S. Nishimura	NNA (FYS1)	
Time	Speaker	Title
8 : 30 – 8 : 55	K. Langanke	Neutrino-nucleus reactions and their role for supernova dynamics and nucleosynthesis
9 : 00 – 9 : 25	T. Kajino	Supernova neutrinos and nucleosynthesis
9 : 30 – 9 : 55	U. Mosel	Neutrino interactions with nucleons and nuclei
10 : 00 – 10 : 25	C. Volpe	Formal and interdisciplinary aspects of neutrino flavour conversion in astrophysical environments
10 : 30 – 10 : 55	T. Suzuki	Spin responses in nuclear weak processes and nucleosynthesis
11 : 00 – 11 : 30	Coffee	Break

Chair:	NEMF (FYS1) C. Krauss		Chair:	DBD (YAA303) A. Barabash	
Time	Speaker	Title	Time	Speaker	Title
11 : 30 – 11 : 55	G. Orebi Gann	THEIA detector	11 : 30 – 11 : 55	F. Cappuzzello	$0\nu\beta\beta$ with NUMEN
12 : 00 – 12 : 25	D. Akimov	RED experiment	12 : 00 – 12 : 25	J. Farine	$0\nu\beta\beta$ with nEXO
12 : 30 – 12 : 55	L. Gastaldo	^{163}Ho experiment	12 : 30 – 12 : 55	S. Elliott	MAJORANA demo
13 : 00 – 14 : 30	L	U	N	C	H
Chair:	DM (FYS1) A. Noble		Chair:	SSO (YAA303) S. Mertens	
Time	Speaker	Title	Time	Speaker	Title
Chair: yyyy			Chair: yyyy		
14 : 30 – 14 : 55	A. Schwenk	Chiral EFT for DM	14 : 30 – 14 : 55	M.-R. Wu	Sterile ν s in SN
15 : 00 – 15 : 25	T. Shokair	ADMX-HF experiment	15 : 00 – 15 : 25	M. Wurm	eV Sterile ν s
15 : 30 – 15 : 55	H. Wong	sub-keV Ge detectors	15 : 30 – 15 : 45	S. Nakamura	ν s from ^2H breakup
16 : 00 – 16 : 25	D. Gazit	Weak processes	15 : 50 – 16 : 05	M. Roda	Results from OPERA
			16 : 10 – 16 : 25	V. Sibille	Double Chooz
	18 : 00 – 19 : 00	RECEPTION	at	the	CITY HALL

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Wednesday June 3rd, 2015

Chair: M. Horoi	DBD (FYS1)	
Time	Speaker	Title
8 : 30 – 8 : 55	S. Petcov	Predictions for leptonic Dirac CP violation
9 : 00 – 9 : 25	C. Brofferio	The present generation of bolometers for double beta decay searches
9 : 30 – 9 : 55	O. Civitarese	Matrix elements for $2\nu\beta\beta$ and $0\nu\beta\beta$ decays: Current results and applications
10 : 00 – 10 : 25	A. Barabash	Review of modern double beta decay experiments
10 : 30 – 10 : 55	H. Ejiri	Neutrino nuclear responses for double beta decays and astro-neutrino interactions
11 : 00 – 11 : 30	Coffee	Break

Chair:	DM (FYS1)		Chair:	SSO (YAA303)	
Time	Speaker	Title	Time	Speaker	Title
11 : 30 – 11 : 55	Y. Kim	KIMS experiment	11 : 30 – 11 : 55	T. Fischer	Core-collapse SN
12 : 00 – 12 : 25	N. Larsen	LUX DM search	12 : 00 – 12 : 25	C. Giunti	Light sterile ν s
12 : 30 – 12 : 55	M. Perez-Garcia	DM scattering	12 : 30 – 12 : 55	S. Mertens	KATRIN experiment
13 : 00 – 14 : 30	L	U	N	C	H
Chair:	DBD (FYS1)		Chair:	NNA (YAA303)	
Time	Speaker	Title	Time	Speaker	Title
14 : 30 – 14 : 55	W. Rodejohann	Right-handed currents	14 : 30 – 14 : 55	M.-K. Cheoun	ν induced reactions
15 : 00 – 15 : 15	J. Barea	DBD NMEs in IBM-2	15 : 00 – 15 : 25	N. Paar	ν induced reactions
15 : 20 – 15 : 35	J. Holt	Ab initio $0\nu\beta\beta$ NMEs	15 : 30 – 15 : 55	A. Tamii	Nucl. responses to p's
15 : 40 – 15 : 55	J. Kotila	$0\nu\beta\beta$ and Majorons			
16 : 00 – 16 : 30		Coffee		Break	
Chair:	DBD (FYS1)		Chair:	NNA (YAA303)	
Time	Speaker	Title	Time	Speaker	Title
16 : 30 – 16 : 55	T. Uesaka	Double GT resonances	16 : 30 – 16 : 55	E. Hiyama	Strangeness and NS
17 : 00 – 17 : 15	J. So	AMoRE exp.	17 : 00 – 17 : 25	H. Kosmas	Non-std interactions
17 : 20 – 17 : 35	A. Gando	KamLAND-Zen	17 : 30 – 17 : 45	H. Togashi	EOS for hyperonic NS
17 : 40 – 17 : 55	M. Biassoni	CUORE-0, results	17 : 50 – 18 : 05	E. Ydrefors	ν s from SN
18 : 00 – 18 : 15	Y. Iwata	DBD of ^{48}Ca in the SM	18 : 10 – 18 : 25	K. Loo	WA105 experiment
18 : 20 – 18 : 35	J. Tebrügge	COBRA DBD exp.			
19 : 00 – 22 : 00	Opportunity	to Enjoy	Nanosauna	Seminar	Session

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Thursday June 4th, 2015

Chair: N. Larsen	DM (FYS1)	
Time	Speaker	Title
8 : 30 – 8 : 55 9 : 00 – 9 : 25 9 : 30 – 9 : 55 10 : 00 – 10 : 25 10 : 30 – 10 : 55	Y. Suzuki P. Belli N. Fornengo A. Morselli J.D. Vergados	Recent results from XMASS Results and strategies for dark matter investigations Particle dark matter signals in the anisotropic sky: a cross-correlations approach Indirect dark-matter searches with gamma-rays experiments: status and future plans Direct dark matter hunt
11 : 00 – 11 : 30	Coffee	Break

Chair: O. Civitarese	DBD (FYS1)		Chair: S.-B. Kim	NEMF (YAA303)	
Time	Speaker	Title	Time	Speaker	Title
11 : 30 – 11 : 55 12 : 00 – 12 : 25 12 : 30 – 12 : 55	J. Engel M. Horoi D. Frekers	$0\nu\beta\beta$ NMEs SM $\beta\beta$ NMEs CXC reactions for $\beta\beta$	11 : 30 – 11 : 55 12 : 00 – 12 : 25 12 : 30 – 12 : 55	V. Egorov S. Schönert A. Hallin	DANSS exp. LARGE ^{76}Ge $0\nu\beta\beta$ exp. DEAP 3600
13 : 00 – 14 : 30	L	U	N	C	H
Chair: H. Ejiri	DBD (FYS1)		Chair: S. Elliott	SSO (YAA303)	
Time	Speaker	Title	Time	Speaker	Title
14 : 30 – 14 : 55 15 : 00 – 15 : 25	F. Simkovic R. Saakyan	$0\nu\beta\beta$ with L and R currents NEMO-3 and SuperNEMO	14 : 30 – 14 : 55 15 : 00 – 15 : 25	F. Calaprice Y. Pehlivan	Exploring $\odot \nu$ s Flavor and SN ν s
	16 : 15 – 23 : 00	Boat	Cruise	and	Banquet

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Friday June 5th, 2015

Chair: J. Maalampi	SSO (FYS1)	
Time	Speaker	Title
8 : 20 – 8 : 45	B. Balantekin	Neutrino properties, collective neutrino oscillations, and r-process nucleosynthesis
8 : 50 – 9 : 15	A. Mirizzi	Spontaneous symmetry breaking effects in self-induced supernova neutrino flavor conversions
9 : 20 – 9 : 45	G. McLaughlin	Neutrino flavor transformation in compact object mergers and collapsars
9 : 50 – 10 : 15	A. Serenelli	Solar models and neutrinos: The standard model and beyond
10 : 20 – 10 : 45	F. Villante	Solar models and neutrinos: A quantitative analysis of the solar abundance problem
10 : 50 – 11 : 15	J. Lattimer	Supernovae, neutron stars, and the equation of state of dense matter
11 : 20 – 11 : 30	Organizers	Closing of the Symposium
11 : 30–	Lunch	and Departure

SSO = Supernova and Solar neutrinos, neutrino Oscillations