

Nuclear Structure 2012

Argonne National Laboratory, August 13-17, 2012



Nuclear Structure 2012 > Program

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Program and Available Presentations

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OTHER AVAILABLE DOWNLOADS

- **DOWNLOAD: NS12 Book of Abstracts**  [7.5MB, file last modified: Tuesday, 03-Jul-2012 12:30:09 CDT]
- **Complete list of Conference Posters**: visit this page to find out which posters are available for download. The list of available posters was last modified on Tuesday, 28-Aug-2012 10:04:48 CDT.

NS12 Program as of Wednesday, 29-Aug-2012 04:04:06 CDT			
	Title	Presenter	Affiliation
August 12, Sunday at the Argonne Guest House (see Venue)			
6.00 pm - 8.00 pm	Registration at the Argonne Guest House		
7.00 pm - 9.00 pm	Reception at the Argonne Guest House		
August 13, Monday at the APS Auditorium (see Venue)			
Chair: A. Wuosmaa (WMU)			
9.00 am - 9.10 am (10 min)	Opening	R.V.F. Janssens	ANL
9.10 am - 9.35 am (20+5 min)	Progress and Challenges in Nuclear Structure and Nuclear Astrophysics Presentation  [7.1MB, posted: Aug. 13, 2012]	J. Carlson	LANL
9.35 am - 9.55 am (15+5 min)	Two and Four Proton Decays in ^8C and ^{12}O Ground States and Their Isobaric Analogs Abstract  Presentation  [1.9MB, posted: Aug. 11, 2012]	R. J. Charity	WUSL
9.55 am - 10.15 am (15+5 min)	On the Evolution of the Neutron $0d_{5/2}$ and $1s_{1/2}$ Orbitals in Neutron-Rich $0p-1s0d$ Shell Nuclei Abstract  Presentation  [2.4MB, posted: Aug. 13, 2012]	C. R. Hoffman	ANL
10.15 am -10.35 am (15+5 min)	Microscopic Level Density for Nucleons and Deformed Core Abstract  Presentation  [721KB, posted: Aug. 25, 2012]	T. Døssing	NBI

10.35 am - 11.00 am (25 min)	Coffee Break		
Chair: L. Sobotka (WUSL)			
11.00 am - 11.20 am (15+5 min)	GFMC Calculations of Electromagnetic Moments and Transitions in $A \leq 9$ Nuclei Including Meson-Exchange Currents Abstract  Presentation  [399KB, posted: Aug. 12, 2012]	S. Pastore	ANL
11.20 am - 11.40 am (15+5 min)	^{19}Mg Two-Proton Decay Lifetime: A New Application of the Recoil Distance Method Abstract  Presentation  [1.2MB, posted: Aug. 15, 2012]	P. Voss	Simon Fraser
11.40 am - 12.00 pm (15+5 min)	Study of the $^{13}\text{B}(d,p)^{14}\text{B}$ Reaction in Inverse Kinematics with HELIOS Abstract  Presentation  [4.4MB, posted: Aug. 10, 2012]	S. Bedoor	WMU
12.00 pm - 12.20 pm (15+5 min)	B(E2) Transition Strengths of Neutron-Rich Carbon Isotopes in a Seniority Scheme Abstract  Presentation  [2.8MB, posted: Aug. 25, 2012]	A. O. Macchiavelli	LBNL
12.20 pm - 12.40 pm (15+5 min)	The No Core Shell Model in an Effective Field Theory Framework Abstract  Presentation  [1.5MB, posted: Aug. 10, 2012]	B. Barrett	Arizona
12.40 pm - 2.00 pm (80 min)	Lunch		
Chair: P. Fallon (LBNL)			
2.00 pm - 2.25 pm (20+5 min)	Recent theoretical developments for the description of medium-heavy nuclei Presentation  [804KB, posted: Aug. 13, 2012]	T. Duguet	Saclay
2.25 pm - 2.45 pm (15+5 min)	Hindered Proton Collectivity in ^{28}S : Possible Magicity at $Z = 16$ Abstract  Presentation  [4.3MB, posted: Aug. 25, 2012]	Y. Togano	RIKEN
2.45 pm - 3.05 pm (15+5 min)	Intermediate-Energy Coulomb Excitation of $^{58,60,62}\text{Cr}$: The Onset of Collectivity Toward $N = 40$ Abstract  Presentation  [5.5MB, posted: Aug. 25, 2012]	T. Baugher	MSU
3.05 pm - 3.25 pm (15+5 min)	Correlations in Direct Two-Proton Knockout and Details of the Reaction Mechanism Abstract  Presentation  [2.1MB, posted: Aug. 13, 2012]	K. Wimmer	MSU
3.25 pm - 4.00 pm (35 min)	Coffee Break		
Chair: W. Walters (Maryland)			
4.00 pm - 4.25 pm (20+5 min)	CARIBU: a new facility to study neutron-rich isotopes Presentation  [15MB, posted: Aug. 20, 2012]	G. Savard	ANL

4.25 pm - 4.45 pm (15+5 min)	First β -Decay Study with CARIBU and Gammasphere: $^{142}\text{Cs} \rightarrow ^{142}\text{Ba}$ Abstract  Presentation  [1.9MB, posted: Aug. 25, 2012]	S. Zhu	ANL
4.45 pm - 5.05 pm (15+5 min)	Beta-Delayed Neutron Spectroscopy with an Ion Trap Abstract  Presentation  [4.9MB, posted: Aug. 25, 2012]	S. A. Caldwell	UChicago
5.05 pm - 5.25 pm (15+5 min)	<i>Ab Initio</i> Widths and Asymptotic Normalizations Abstract  Presentation  [2.8MB, posted: Aug. 09, 2012]	K. M. Nollett	ANL
6.00 pm - 8.30 pm (2.5 hr)	CARIBU Tour & Reception		
August 14, Tuesday at the APS Auditorium (see Venue)			
Chair: R. Wadsworth (York)			
9.00 am - 9.25 am (20+5 min)	Recent results from REX-ISOLDE and future prospects with HIE-ISOLDE Presentation  [18MB, posted: Aug. 25, 2012]	P. Butler	Liverpool
9.25 am - 9.45 am (15+5 min)	Structure of ^9C from the $^{10}\text{C}(d,t)^9\text{C}$ Reaction and the Reliability of Ab-Initio Transfer Form Factors Abstract  Presentation  [2.6MB, posted: Aug. 14, 2012]	S. T. Marley	WMU
9.45 am - 10.05 am (15+5 min)	Search for Intruder States in $^{66,67}\text{Co}$ Abstract  Presentation  [1.7MB, posted: Aug. 25, 2012]	C. Chiara	U. Maryland
10.05 am -10.25 am (15+5 min)	Discovery of 18 New Isomers Using In-Flight Fission of 345 MeV/u ^{238}U : Evolution of the Shell Structure and Shape Coexistence Abstract  Presentation  [1.6MB, posted: Aug. 25, 2012]	D. Kameda	RIKEN
10.25 am - 11.00 am (35 min)	Coffee Break Conference Photo		
Chair: P. Garrett, U. Guelph (MSU)			
11.00 am - 11.25 am (20+5 min)	Ground State Properties and Moments via Laser Spectroscopy Presentation  [20MB, posted: Aug. 25, 2012]	J. Billowes	Manchester
11.25 am - 11.45 am (15+5 min)	Spins, Moments and Sizes of $^{100-130}\text{Cd}$ by Laser Spectroscopy Abstract  Presentation  [6.0MB, posted: Aug. 25, 2012]	D. T. Yordanov	MPI
11.45 am - 12.05 pm (15+5 min)	Nuclear Structure Relevant to Neutrinoless Double- β Decay: the Valence Neutrons in ^{130}Te and ^{130}Xe Abstract  Presentation  [3.1MB, posted: Aug. 13, 2012]	J. P. Schiffer	ANL

12.05 pm - 12.25 pm (15+5 min)	Opportunities for the Laser Probing of Thermalized Beams of Rare Isotopes Produced via Projectile Fragmentation Abstract Presentation  [2.5MB, posted: Aug. 14, 2012]	P. Mantica	MSU
12.25 pm - 2.00 pm (95 min)	Lunch		
Chair: R. Bark (iThemba)			
2.00 pm - 2.25 pm (20+5 min)	Mean Field and beyond: Progress and challenges in describing medium and heavy nuclei Presentation  [4.3MB, posted: Aug. 25, 2012]	S. Frauendorf	Notre Dame
2.25 pm - 2.45 pm (15+5 min)	Observation of Mutually Enhanced Collectivity in Self-Conjugate ^{76}Sr Abstract  Presentation  [5.4MB, posted: Aug. 25, 2012]	A. Lemasson	MSU
2.45 pm - 3.05 pm (15+5 min)	Single-Neutron Levels Near the $N = 82$ Shell Gap Abstract  Presentation  [7.8MB, posted: Aug. 14, 2012]	B. Manning	Rutgers
3.05 pm - 3.25 pm (15+5 min)	Indications of Deformation Along the $N = 40$ Isotones Abstract  Presentation  [1.6MB, posted: Aug. 25, 2012]	S. N. Liddick	MSU
3.25 pm - 3.45 pm (20 min)	Coffee Break		
Chair: M.P. Carpenter (ANL)			
3.45 pm - 4.05 pm (15+5 min)	Structure of Mg Isotope Studied by β -Decay Spectroscopy of Spin-Polarized Na Isotopes - shape Coexistence in ^{30}Mg Abstract  Presentation  [4.9MB, posted: Aug. 25, 2012]	A. Odahara	Osaka
4.05 pm - 4.25 pm (15+5 min)	Production of ^{40}Mg Following 2p Knockout from ^{42}Si Abstract  Presentation  [1.8MB, posted: Aug. 14, 2012]	H. L. Crawford	LBNL
4.25 pm - 4.45 pm (15+5 min)	Results from $d(^{30}\text{Mg},p)^{31}\text{Mg}$ at REX-ISOLDE Abstract  Presentation  [11MB, posted: Aug. 13, 2012]	V. Bildstein	Guelph
4.45 pm - 5.05 pm (15+5 min)	Resolving $B(E2)$ Discrepancies in the Ni, Sn, and Te Isotopes by Coulomb Excitation in Inverse Kinematics Abstract  Presentation  [8.3MB, posted: Aug. 25, 2012]	J. M. Allmond	ORNL
5.05 pm - 5.25 pm (15+5 min)	Lifetimes of Excited States in Neutron-Rich Nuclei Abstract  Presentation  [2.2MB, posted: Aug. 25, 2012]	A. Gørgen	Oslo
5.25 pm - 5.45 pm (15+5 min)	Role of the $n(g9/2)$ Orbital in the Ni Isotopes Abstract  Presentation 	M. Albers	ANL

	[3.5MB, posted: Aug. 25, 2012]		
5.45 pm - 6.05 pm (15+5 min)	Octupole Collectivity at $N > 90$ Abstract Presentation [3.1MB, posted: Aug. 14, 2012]	F. Prados-Estévez	Kentucky
6.15 pm - 8.30 pm (2.15 hr)	Poster Session with snacks		
August 15, Wednesday at the APS Auditorium (see Venue)			
Chair: W.F. Henning (ANL)			
9.00 am - 9.25 am (20+5 min)	Nuclei from the Island of SHE Abstract Presentation [3.4MB, posted: Aug. 10, 2012]	Yu. Oganessian	JINR
9.25 am - 9.45 am (15+5 min)	Odd-Z Superheavy Element Studies: New Results for Elements 113, 115 and 117 Abstract Presentation [5.4MB, posted: Aug. 25, 2012]	M. A. Stoyer	LLNL
9.45 am - 10.10 am (20+5 min)	Stability of superheavy nuclei at high spin: shell, saddle & barrier energies Presentation [2.0MB, posted: Aug. 25, 2012]	T. L. Khoo	ANL
10.10 am -10.30 am (15+5 min)	Shell-Structure and Pairing Interaction in Superheavy Nuclei: Rotational Properties of the $Z = 104$ Nucleus ^{256}Rf Abstract Presentation [9.8MB, posted: Aug. 15, 2012]	P. T. Greenlees	Jyvaskyla
10.30 am - 11.00 am (30 min)	Coffee Break		
Chair: K. Rykaczewski (ORNL)			
11.00 am - 11.20 am (15+5 min)	High-Spin Structure of Neutron-Rich $^{248-250}\text{Cf}$ ($N = 150-152$) Abstract Presentation [4.0MB, posted: Aug. 25, 2012]	S. S. Hota	Lowell
11.20 am - 11.40 am (15+5 min)	Towards Spectroscopic Quality Energy Density Functionals Abstract Presentation [7.7MB, posted: Aug. 25, 2012]	A. V. Afanasjev	MS
11.40 am - 12.00 pm (15+5 min)	Multiple Octupole Bands and Shape Change in ^{221}Th Abstract Presentation [11MB, posted: Aug. 25, 2012]	W. Reviol	WUSL
12.00 pm - 12.20 pm (15+5 min)	Triaxiality and the Changing Nature of K-Isomers in Tungsten Nuclei from $A = 182$ to $A = 190$ Abstract Presentation [10MB, posted: Aug. 25, 2012]	G. Lane	ANU
12.20 pm - 12.40 pm (15+5 min)	Neutron-Rich Lead Isotopes Provide Hints on the Role of Effective Three-Body Forces Abstract Presentation [7.9MB, posted: Aug. 25, 2012]	A. Gottardo	INFN
12.40 pm - 2.00 pm (80 min)	Lunch		
Chair: G. Ball (TRIUMF)			

2.00 pm - 2.25 pm (20+5 min)	Nuclear Masses and their Importance for Nuclear Structure Studies Abstract  Presentation  [18MB, posted: Aug. 15, 2012]	K. Blaum	Heidelberg
2.25 pm - 2.45 pm (15+5 min)	Precision Mass Measurements Beyond Neutron-Rich ^{132}Sn at JYFLTRAP Abstract  Presentation  [10MB, posted: Aug. 25, 2012]	T. Eronen	Jyvaskyla/MPI
2.45 pm - 3.05 pm (15+5 min)	Gyromagnetic Ratios in Stable and Neutron-Rich Semi-Magic Nuclei by the Recoil in Vacuum Method Abstract  Presentation  [2.7MB, posted: Aug. 25, 2012]	A. E. Stuchbery	ANU
3.05 pm - 3.25 pm (15+5 min)	Three-Nucleon forces in Medium Mass Nuclei Near $N = 32$ Investigated Through Precision Mass Measurements at TITAN Abstract  Presentation  [12MB, posted: Aug. 15, 2012]	A. T. Gallant	TRIUMF
3.25 pm - 3.50 pm (25 min)	Coffee Break		
Chair: W. Ma (MS)			
3.50 pm - 4.10 pm (15+5 min)	Probing the Character of the Pygmy Dipole Resonance Abstract  Presentation  [1.9MB, posted: Aug. 25, 2012]	V. Derya	Koln
4.10 pm - 4.30 pm (15+5 min)	Collective Structures at Ultrahigh Spin in the Rare Earth Region: A New Chapter in the Story of Rapid Nuclear Rotation and A New Challenge for Understanding Triaxiality in Nuclei Abstract  Presentation  [12MB, posted: Aug. 25, 2012]	X. Wang	FSU
4.30 pm - 4.50 pm (15+5 min)	Structure of Low-Lying Octupole States in the Mass 160 Region Abstract  Presentation  [9.5MB, posted: Aug. 25, 2012]	M. A. Stankiewicz	iThemba
4.50 pm - 5.10 pm (15+5 min)	Structural Evolution in the $A \sim 100$ Region Abstract  Presentation  [3.9MB, posted: Aug. 16, 2012]	V. Werner	Yale
5.10 pm - 5.30 pm (15+5 min)	Many-Body Dynamics in a Relativistic Framework: Spectral Properties of Exotic Nuclei Abstract  Presentation  [4.4MB, posted: Aug. 25, 2012]	E. Litvinova	GSI
6.30 pm - 10.30 pm	Conference Dinner		
	After-dinner Speaker	M. Riley	FSU
August 16, Thursday at the HEP Auditorium (Building B362, see Venue)			
Chair: A. Aprahamian (Notre Dame)			

9.00 am - 9.25 am (20+5 min)	Recent Developments in Nuclear Astrophysics Presentation  [4.1MB, posted: Aug. 16, 2012]	C. Deibel	LSU
9.25 am - 9.45 am (15+5 min)	The First Experiments with ANASEN Abstract  Presentation  [15MB, posted: Aug. 15, 2012]	G. V. Rogachev	FSU
9.45 am - 10.05 am (15+5 min)	New Half-Lives of <i>r</i> -Process Nuclei in the Vicinity of ^{78}Ni Abstract  Presentation  [9.8MB, posted: Aug. 25, 2012]	M. Madurga	UT/ORNL
10.05 am -10.25 am (15+5 min)	Measurement of the $^{269}\text{Al}(d,p)^{27}\text{Al}$ Reaction to Constrain the $^{269}\text{Al}(p,\gamma)^{27}\text{Si}$ Reaction Rate Abstract  Presentation  [9.0MB, posted: Aug. 16, 2012]	S. D. Pain	ORNL
10.25 am - 11.00 am (35 min)	Coffee Break		
Chair: S. Yates (Kentucky)			
11.00 am - 11.25 am (20+5 min)	Novel HPGe detector design for gamma-ray tracking and imaging Presentation  [2.6MB, posted: Aug. 25, 2012]	D. Radford	ORNL
11.25 am - 11.45 am (15+5 min)	Experiments with fast radioactive beams at GSI - Recent developments and results Presentation  [23MB, posted: Aug. 25, 2012]	T. Aumann	GSI
11.45 am - 12.05 pm (15+5 min)	Low-Energy Enhancement in the γ Strength with Impact on Astrophysical Reaction Rates Abstract  Presentation  [12MB, posted: Aug. 25, 2012]	A. C. Larsen	Oslo
12.05 pm - 12.25 pm (15+5 min)	Developments of HFB Solvers and Continuum Effects in Deformed Drip-Line Nuclei Abstract  Presentation  [3.2MB, posted: Aug. 25, 2012]	J. C. Pei	UT/Peking
12.25 pm - 1.45 pm (80 min)	Lunch		
1.45 pm - 11.00 pm	Excursion to Downtown Chicago (see Excursion Suggestions)		
August 17, Friday at the APS Auditorium (see Venue)			
Chair: I-Y. Lee (LBNL)			
9.00 am - 9.15 am (10+5 min)	Decay Spectroscopy of Neutron-Rich Nuclei Around ^{38}Al Presentation  [1.6MB, posted: Aug. 25, 2012]	K. Steiger	TU Munchen
9.15 am - 9.35 am (15+5 min)	Beta Delayed Neutron Emission - New Perspective on <i>r</i> -Process Nuclei with Versatile Array of Neutron Detectors at Low Energy (VANDLE) Abstract  Presentation  [23MB, posted: Aug. 17, 2012]	R. Grzywacz	UT/ORNL

9.35 am - 9.55 am (15+5 min)	Recent Results from INGA on Excitations of Transitional Nuclei Abstract  Presentation  [2.8MB, posted: Aug. 25, 2012]	R. Palit	TIFR
9.55 am - 10.15 am (15+5 min)	Highlights and future plans at RIBF Presentation  [9.3MB, posted: Aug. 25, 2012]	H. Sakurai	RIKEN
10.15 am - 10.35 am (15+5 min)	Recent results and perspectives of the GANIL/SPIRAL2 facility Presentation  [55MB, posted: Aug. 17, 2012]	M. Lewitowicz	GANIL
10.35 am - 11.00 am (25 min)	Coffee Break		
Chair: D. Hartley (USNA)			
11.00 am - 11.20 am (15+5 min)	TRIUMF's rare isotope program Presentation  [47MB, posted: Aug. 17, 2012]	R. Kruecken	TRIUMF
11.20 am - 11.40 am (15+5 min)	Advanced Gamma Tracking Array AGATA Presentation  [12MB, posted: Aug. 25, 2012]	A. Gottardo	INFN
11.40 am - 12.00 pm (15+5 min)	GRETINA's First Year: Status and Results Presentation  [8.8MB, posted: Aug. 25, 2012]	C. Campbell	LBNL
12.00 pm - 12.20 pm (15+5 min)	Science and Status of the Facility for Rare Isotope Beams Presentation  [4.7MB, posted: Aug. 17, 2012]	B. Sherrill	MSU
12.20 pm - 12.25 pm (5 min)	Announcement		
12.25 pm - 12.55 pm (30 min)	Summary Talk Presentation	G. D. Dracoulis	ANU
12.55 pm	Adjourn		
<i>NS12 Program as of Aug. 29, 2012</i>			

NS12 Conference Schedule Last Modified: Wednesday, 29-Aug-2012 04:04:06 CDT

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