



50 yrs of Beam Symposium Schedule

All scientific sessions will take place at the Hawking Auditorium in the lower level of the [Mitchell Institute for Fundamental Physics & Astronomy](#). For those who indicated their interest in a tour of the Institute, we will be offering them during the poster session Wednesday evening.

If you have any questions, please [email us](#), or call us at +1(979)845-1411.

You may download a pdf of the abstracts for the oral presentations [here](#).

Wednesday morning — Registration (8:00 am–9:00 am)

8:00 am	Registration outside Hawking Auditorium	
8:50 am	Sherry Yennello	Welcome address

Wednesday morning — Nuclear Equation of State (9:00 am–12:35 pm)

Chair: Remco Zegers

9:00 am	Robert Charity	Exotic nuclei, equation of state, and other reaction studies at the TAMU cyclotron
9:45 am	Bao-An Li	The role of isospin and symmetry energy in heavy-ion collisions at Fermi energies
10:10 am	Roy Wada	Primary reconstruction of IMF and symmetry energy
10:35 pm	Alan McIntosh	Equilibrium chronometry: resolving the migration of nucleons on a sub-zeptosecond timescale
11:00 am	20 min break	
11:20 am	Kris Hagel	Heavy element synthesis using multi-nucleon transfer reactions between heavy nuclei
11:45 am	Evgeny Tereshatov	On the way to studying Nihonium chemistry
12:10 pm	Anatoli Afanasjev	Super- and hyper-heavy nuclei in covariant density functional theory
12:35 pm	85 min lunch	

Wednesday afternoon — Nuclear Astrophysics (2:00 pm–5:35 pm)

Chair: Robert Charity

2:00 pm	Remco Zegers	Giant resonances and nuclear astrophysics at the Texas A&M Cyclotron Institute
2:45 pm	Michael Wiescher	Nucleosynthesis in first stars, the on-set of chemical evolution
3:10 pm	Giuseppe Gabriele Rapisarda	Trojan horse measurement at the Cyclotron Institute with RIBs: the $^{18}\text{F}(p,\alpha)^{15}\text{O}$ reaction
3:35 pm	20 min break	
3:55 pm	Chris Wrede	Beta decays of the neutron-deficient chlorine isotopes
4:20 pm	Livius Trache	Nuclear astrophysics with rare ion beams from MARS
4:45 pm	Ani Aprahamian	Neutron-rich nuclei and the sensitivities to the r-process
5:10 pm	William Newton	Nuclear pasta: inhomogeneous neutron-rich matter in neutron stars and astrophysical implications
5:35 pm	25 min break	

Wednesday evening — Poster session (6:00 pm–8:00pm)

We will be offering tours of the Cyclotron Institute at this time as well; if you haven't already signed up, please let us know to expect you by registering [here](#).

6:00 pm	Hors d'oeuvres and wine/beer will be served	
	Avinash Agarwal	Low energy fusion incompleteness in heavy ion induced reactions
	Miguel Bencomo	Superallowed β decay of ^{26}Si : Sensitive test for isospin symmetry-breaking corrections
	Eames Bennett	Constraining the astrophysical $^{23}\text{Mg}(p,\gamma)^{24}\text{Al}$ reaction rate using the $^{23}\text{Na}(d,p)^{24}\text{Na}$ reaction
	Megan Bennett	Development of a $^{235,236}\text{Np}$ tracer via $^{236}\text{U}(d,xn)$ pathway
	Giacomo Bonasera	Theoretical Predictions of Giant Resonances in ^{94}Mo
	XiGuang Cao	Exotic α emission from α conjugate nuclei collisions
	Sahila Chopra	Role of non-coplanar degree-of-freedom in heavy-ion reactions
	Xiaojian Du	Bottomonium Production in Heavy-Ion Collisions
	Kevin Glennon	Separating Irradiated Uranium Fuel to Measure Isotope Ratios Essential for Attribution
	Joshua Hooker	Structure of ^{10}N via $^9\text{C}+p$ Resonance Scattering
	Curtis Hunt	Studying light exotic nuclei through isobaric analogue states

Peter Jacobs	QCD Matter: status and prospects
Heshani Jayatissa	Probing the effect of the $^{22}\text{Ne}(\alpha, n)$ reaction rate on the s-process isotope abundances using sub-Coulomb alpha-transfer techniques
Manpreet Kaur	Comparative analysis of fragment production in the decay of $A=80$ compound systems at low and intermediate energies
Mandeep Kaur	Neck length parameter of dynamical cluster decay model and entrance channel mass asymmetry
Suresh Kumar	High spin states and polarization asymmetry measurements in transitional strontium isotopes near the $N=50$ shell closure
Shuai Liu	T-MATRIX APPROACH TO QUARK-GLUON PLASMA
Daniel Nagasawa	Chemical Abundance Measurements of Ultra-Faint Dwarf Galaxies Discovered by the Dark Energy Survey
Ninel Nica	Precise Measurement of α_k for the 39.76-keV E3 Transition in ^{103}Rh : A Further Test of Internal Conversion Theory
Shuya Ota	Study of astrophysical $\alpha + ^{22}\text{Ne}$ reaction using alpha transfer with TIARA and MDM spectrometer
Alis Rodriguez Manso	"Neutron-proton equilibration chronometry in dynamically deformed nuclear systems"
Steven Rose	A Novel Semi-Analytic Color Glass Event Generator
Benjamin Schroeder	Commissioning TAMUTRAP: The World's Largest Penning Trap
FNU Shubhchintak	Primordial $d(\alpha, \gamma)^6\text{Li}$ reaction and second lithium puzzle
Mandira Sinha	The effect of breakup on elastic and fusion reactions involving loosely bound nuclei
Sriteja Upadhyayula	Probing the cluster structure in ^{10}Be using resonant $^6\text{He} + \alpha$ scattering
Merinda Volia	Solvent extraction of indium and thalium into betainium based ionic liquid and DL-menthol based deep eutectic solvent
Zhidong Yang	Extract shear viscosity of hot hadron gas with a viscous blast wave model

Thursday morning — Nuclear Structure (9:00 am–12:35 pm)

Chair: Bradley Sherrill

9:00 am	Kai Hebeler	Status and future perspectives in ab initio nuclear structure theory
9:45 am	Jiansong Wang	Recent experimental studies at RIBLL1
10:10 am	Carlos Bertulani	Quasi-free scattering with radioactive beams
10:35 am	20 min break	
10:55 am	Valdir Guimaraes	Elastic scattering of the halo nucleus ^8B on ^{12}C , ^{27}Al , ^{58}Ni and ^{208}Pb targets
11:20 am	Marina Barbui	Exploring clustering in alpha-conjugate nuclei using the thick target inverse kinematic technique for multiple alpha emission

11:45 pm	Zhiqiang Chen	Study of three-body forces and fragmentation in nuclear reactions
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12:10 pm	110 min lunch	
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Thursday afternoon — Applications of Cyclotron-based Nuclear Science (2:00 pm–3:35 pm)

Chair: Henry Clark

2:00 pm	Kenneth LaBel	Why NASA and the space electronics community cares about cyclotrons
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2:35 pm	Gregory Allen	A trip down the beamline – a behind the scenes look at single-event effects testing at the Texas A&M Cyclotron
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3:10 pm	Carlos Gonzalez Lepera	Production of metal radioisotopes for positron emission tomography (PET)
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3:35 pm	15 min break	
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Thursday afternoon — Historical Talks by former Directors (3:50 pm–6:00 pm)

Chair: Sherry Yennello

3:50 pm	Dave Youngblood	The beginning
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4:00 pm	Whit McFarlin	The construction and operation of the 88" cyclotron
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4:30 pm	Dave Youngblood	From the 88" cyclotron to the K500 superconducting cyclotron 1971 to 1991
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5:00 pm	Joseph Natowitz	The golden years: 1991 to 2002
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5:30 pm	Robert Tribble	A step back to move ahead: the Cyclotron Institute from 2003 to 2014
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Thursday evening — Conference Banquet (7:00 pm)

7:00 pm	Banquet and talk by the Cyclotron Institute director, Sherry Yennello, at the Hildebrand Equine Complex (click here to sign up if you haven't already). There is plenty of parking for participants with vehicles (click here for the location). For those who do not have a car, we will be providing a shuttle bus to and from the banquet.	
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Friday morning — Fundamental Symmetries I (9:00 am–11:00 am)

Chair: Nicholas Scielzo

9:00 am	John Hardy	Testing the standard model with superallowed $0^+ \rightarrow 0^+$ beta decay
9:45 am	Yang Sun	Systematical shell-model study towards understanding of isospin-symmetry breaking in nuclei
10:10 am	Willem van Oers	Measurement of the weak charge of the proton
10:35 am	Alejandro Garcia	Searches for chirality-flipping interactions in ${}^6\text{He}$
10:35 am	30 min break	

Friday morning — Recognition Session and BBQ (11:30 am–1:45 pm)

11:30 am Special session to recognize successes in the past 50 yrs, followed by a BBQ lunch (provided; click [here](#) to sign up if you haven't already).

Friday afternoon — Fundamental Symmetries II (1:45 pm–2:35 pm)

Chair: Dan Melconian

1:45 pm	Maxime Brodeur	Precision measurements of mirror transitions at the University of Notre Dame
2:10 pm	Nicholas Scielzo	Improving beta-decay studies for fundamental science and applications
2:35 pm	10 min break	

Friday afternoon — High-energy Nuclear Physics (2:45 pm–5:30 pm)

Chair: Charles Gale

2:45 pm	Peter Jacobs	QCD Matter: status and prospects
3:30 pm	Michael Murray	Phase transitions in small systems
3:55 pm	20 min break	
4:15 pm	Roy Lacey	Indications for a critical end point in the phase diagram for hot and dense nuclear matter
4:40 pm	Yu-Gang Ma	Research progress on anti-matter in relativistic heavy-ion collisions
5:05 pm	Jun Xu	Investigating the RHIC-BES physics based on an extended AMPT model with mean-field potentials

Closing remarks (5:30 pm–5:35 pm)



Last modified: November 15 2017