

**SECTION I: NUCLEAR STRUCTURE, FUNDAMENTAL
INTERACTIONS AND ASTROPHYSICS**

- Isoscalar giant dipole resonance for several nuclei with $A \geq 90$ I-1**
Y. -W. Lui, X. Chen, H. L. Clark, B. John, Y. Tokimoto, D. H. Youngblood
- Giant resonances in $^{46}, ^{48}\text{Ti}$I-4**
Y. Tokimoto, B. John, X. Chen, H. L. Clark, Y. -W. Lui and D. H. Youngblood
- Determination of the direct capture contribution for $^{13}\text{N}(p,\gamma)^{14}\text{O}$ from the $^{14}\text{O} \rightarrow ^{13}\text{N} + p$
asymptotic normalization coefficientI-6**
X. Tang, A. Azhari, C. Fu, C. A. Gagliardi, A. M. Mukhamedzhanov,
F. Pirlepesov, L. Trache, R. E. Tribble, V. Burjan, V. Kroha and F. Carstoiu
- Breakup of loosely bound nuclei at intermediate energies as indirect method in nuclear
astrophysics: ^8B and the S_{17} astrophysical factorI-8**
F. Carstoiu, L. Trache, C. A. Gagliardi, and R. E. Tribble
- Elastic scattering of ^8B on ^{12}C and ^{14}NI-10**
A. Azhari, V. Burjan, F. Carstoiu, C. A. Gagliardi, X. Tang, L. Trache, and
R. E. Tribble
- Study of ^8Li and the astrophysical $S_{17}(0)$ factor.....I-11**
L. Trache, A. Azhari, F. Carstoiu, H. L. Clark, C. A. Gagliardi, Y.-W. Lui,
A. M. Mukhamedzhanov, X. D. Tang, N. Timofeyuk and R.E. Tribble
- Remeasurement of $^{14}\text{N}+^7\text{Be}$ for the astrophysical $S_{17}(0)$ factorI-12**
G. Tabacaru, A. Azhari, J. Brinkley, V. Burjan, C. Fu, C. A. Gagliardi, X. Tang,
L. Trache, R. E. Tribble
- The physics of STAR at RHICI-13**
C. A. Gagliardi, T. W. Henry, R. E. Tribble, M. A. Vasiliev, and the STAR
Collaboration
- TWIST: Measuring the space-time structure of muon decayI-15**
C. A. Gagliardi, J. R. Musser, R. E. Tribble, M. A. Vasiliev, and the
TWIST Collaboration
- Absolute Drell-Yan dimuon cross sections in 800 GeV/c pp and pd collisionsI-17**
C. A. Gagliardi, E. A. Hawker, R. E. Tribble, M. A. Vasiliev, and the FNAL
E866/NuSea Collaboration
- High precision measurement of the superallowed $0^+ \rightarrow 0^+$ beta decay of ^{22}MgI-19**
J. C. Hardy, V. E. Jacob, M. Sanchez-Vega, R. G. Neilson, A. Azhari,
C. A. Gagliardi, V. E. Mayes, X. Tang, L. Trache and R. E. Tribble

The use of Monte Carlo calculations in the determination of a Ge detector efficiency curve between 50 and 1400 keV	I-22
J. C. Hardy, V. E. Iacob, M. Sanchez-Vega, R. G. Neilson, J. Nelson and R. G. Helmer	
TRIUMF E-823: High precision branching ratio measurement for the superallowed β decay of ^{74}Rb: a prerequisite for exacting tests of the standard model	I-26
J. C. Hardy and V. I. Iacob	
Precise efficiency calibration of an HPGe detector up to 3.5 MeV, with measurements and Monte Carlo calculations	I-28
N. Nica, J. C. Hardy, V. E. Iacob and R. G. Helmer	
Beta decay of ^{62}Ga	I-31
B. C. Hyman, V. E. Iacob, A. Azhari, C. A. Gagliardi, J. C. Hardy, V. E. Mayes, R. G. Neilson, M. Sanchez-Vega, X. Tang, L. Trache and R. E. Tribble	
T=5/2 states in ^9Li: Isobaric analog states of ^9He.....	I-34
G. Chubarian, V. Z. Goldberg, G. V. Rogachev, J. J. Kolata, D. Aleksandrov, A. Fomichev, M. S. Golovkov, Yu. Ts. Oganessian, A. Rodin, B. Skorodumov, R. S. Slepnev, G. Ter-Akopian and W. H. Trzaska and R. Wolski	
α -Structure in ^{22}Ne by the resonance $^{18}\text{O}+^4\text{He}$ scattering.....	I-35
G. Chubarian, V. Z. Goldberg, G. V. Rogachev, M. V. Rozhkov B. B. Skorodumov, W. H. Trzaska, K.-M. Kallman, T. Lönnroth and M. Mutterer	
Recent results in the studies of nuclear structure by resonance scattering with radioactive beams	I-36
G. Chubarian, V. Z. Goldberg, W. H. Trzaska, G. V. Rogachev, J. J. Kolata, A. Andreyev, C. Angulo, M. J. G. Borge, S. Cherubini, G. Crowley, A. Fomichev, M. Gorska, M. Gulino, M. S. Golovkov, M. Huyse, K. -M. Källman, M. Lattuada, T. Lönnroth, M. Mutterer, R. Raabe, A. Rodin, S. Romano, M. V. Rozhkov, B. B. Skorodumov, C. Spitaleri, O. Tengblad, G. Ter-Akopian, A. Tumino, P. Van Duppen, R. Wolski	
Evolution of shell structure to drip lines near 1P shell	I-37
V. Z. Goldberg	
Final state interaction or a ^3H excited state?	I-39
V. Z. Goldberg, G. V. Rogachev, J. J. Kolata, L. V. Grigorenko, F. D. Becchetti, P. A. DeYoung, J. D. Hinnefeld, L. O. Lamm, J. Lupton, T. W. O'Donnell, D. A. Roberts and S. Shaheen	