Thomas N. Massey

Education:

San Jose State University	B.S.	1978
University of California,Davis	M.S.	1980
University of California,Davis	Ph.D.	1988

Position:

2007-present		
	Research Associate Professor	Ohio University
1994 - 2007		
	Research Assistant Professor	Ohio University
1989 - 1994		
	Research Scientist	Ohio University
1988-1989		
	Research Scientist	Lawrence Livermore NL
1978-1988		
	Research Assistant	Lawrence Livermore NL
1975-1978		
	Student Employee	San Jose Sate University

Research:

Nuclear structure studies using in-beam gamma-spectroscopy, gamma ray spectroscopy of beta decay, single and multiple nucleon transfer reactions. Experiments using radioactive beams, radioactive targets or both. Measurement of (z,n) reactions, neutron elastic and inelastic cross sections using time-of-flight techniques. Calculation of reaction cross sections using combined shell-model R-matrix approach. Calculation of level density information using moment methods and random sampling in a large basis shell model.

Professional Activites:
The distance learning courses "Radiation Biophysics", "Interaction of Radiation with Matter", and "Radiation Dosimetry". were originated and the study guides written for Thomas Edison State University. The course "Introduction to Radiation Physics" was developed and taught at Ohio University. Referee for Physical Review C, Nuclear Instruments and Methods, and Radiation Physics and Chemistry. Reviewer for NSF, DOE and DARPA.

Service Work:
License Holder of all radioactive sources at Laboratory, Ohio University
Safety Committee (Physics Department)
Member Ohio University Radiation Safety Committee.

Publications:
"Measurement of the normalized $^{238}\mathrm{U}(n,f)/^{235}\mathrm{U}(n,f)$ cross section ratio from threshold to 30 MeV with the NIFFTE fission Time Projection Chamber, R.J.Casperson, D.M. Asner, J. Baker, R.G. Baker, J.S. Barrett, N.S. Bowden, C. Brune, J. Bundgaard, E. Burgett, D.A. Cebra, T. Classen, M. Cunningham, J. Deaven, D.L. Duke, I. Ferguson, J. Gearhart, V. Geppert-Kleinrath, U. Greife, S. Grimes, E. Guardincerri, U. Hager, C. Hagmann, M. Heffner, D. Hensle, N. Hertel, D. Higgins, T. Hill, L.D. Isenhower, J. King, J.L. Klay, N. Kornilov, R. Kudo, A.B. Laptev, W. Loveland, M. Lynch, W.S. Lynn, J.A. Magee, B. Manning, T.N. Massey, C. McGrath, R. Meharchand, M.P. Mendenhall, L. Montoya, N.T. Pickle, H. Qu, J. Ruz, and S. Sangiorgio, K.T. Schmitt, B. Seilhan, S. Sharma, L. Snyder, S. Stave, A.C. Tate, G. Tatishvili, R. T. Thornton, F. Tovesson, D.E. Towell, R.S. Towell, N. Walsh, S. Watson, B. Wendt, L. Wood, L. Yao, W. Younes, W., *Phys. Rev. C* **97**,034618 (2018).

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"Mass-number and excitation-energy dependence of the spin cutoff parameter," S.M. Grimes, A.V. Voinov, and T.N. Massey, Phys. Rev. C **94**, 014308 (2016).

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"Level density and mechanism of deuteron-induced reactions on ^{54,56,58}Fe," A. P. D. Ramirez, A. V. Voinov, S. M. Grimes, Y. Byun, C. R. Brune, T. N. Massey, S. Akhtar, S. Dhakal, and C. E. Parker, Phys. Rev. C **92**, 014303 (2015).

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