

Mustafa M. Rajabali

Assistant Professor

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Research interests	Low energy nuclear physics - Study of nuclear structure via α , β , γ decay, laser spectroscopy and detector development for radiation detection. Interdisciplinary science - Application of radiation detection methods for research in geography, biology and environmental science.	
Research & academic experience	Assistant professor Nuclear Structure and detector development <i>Tennessee Technological University, USA</i> Research associate <i>TRIUMF, Canada</i> Post doctoral research fellow <i>Katholieke Universiteit Leuven, Belgium</i>	08/2014 - present 01/2012 - 07/2014 09/2009 - 12/2011
Education	PhD, Nuclear Physics <i>University of Tennessee, USA</i> M.S., Condensed Matter Physics <i>University of North Dakota, USA</i> B.A., Physics <i>Concordia College, USA</i>	08/2005 - 08/2009 08/2003 - 08/2005 01/2000 - 04/2003
Selected publications (over 40 in total)	M. M. Rajabali, R. Grzywacz, S. N. Liddick, C. Mazzocchi, J. C. Batchelder, T. Baumann, C. R. Bingham, I. G. Darby, T. N. Ginter, S.V. Ilyushkin, M. Karny, W. Królas, P. F. Mantica, K. Miernik, M. Pfützner, K. P. Rykaczewski, D. Weisshaar, J. A. Winger: β -decay of ^{72}Co and microsecond isomers in even-mass neutron rich Ni isotopes, <i>Journal of Physics G</i> , 41 , 115104, 2014. <i>Selected as one of the highlights of 2014 in Journal of Physics G.</i> M. M. Rajabali, K. M. Lynch, T. E. Cocolios, J. Billowes, M. L. Bissell, S. De Schepper, K. Dewolf, K. T. Flanagan, F. Le Blanc, B. A. Marsh, P. J. Mason, I. Matea, G. Neyens, J. Papuga, T. J. Procter, S. Rothe, G. Simpson, A. J. Smith, H. H. Stroke, D. Verneyg, P. M. Walker, K. Wendt, R. Wood: <i>A dedicated decay-spectroscopy station for the collinear resonant ionization experiment at ISOLDE</i> , <i>Nuclear Instruments and Methods in Physics Research A</i> , 707 , 3539, 2013. M. M. Rajabali, R. Grzywacz, S. N. Liddick, C. Mazzocchi, J. C. Batchelder, T. Baumann, C. R. Bingham, I. G. Darby, T. N. Ginter, S.V. Ilyushkin, M. Karny, W. Królas, P. F. Mantica, K. Miernik, M. Pfützner, K. P. Rykaczewski, D. Weisshaar, J. A. Winger: β -decay of $^{71,73}\text{Co}$ - probing single particle states approaching doubly magic ^{78}Ni , <i>Physical Review C</i> , 85 , 034326, 2012.	