

Curriculum Vitae: Joachim Görres

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Educational Record

Abitur:	Ratsgymnasium Münster, 1972
Vordiplom (B.S. Degree) in Physics:	Universität Münster, 1974
Diplom (M.S. Degree) in Physics:	Universität Münster, 1979
Ph.D. in Nuclear Physics:	Universität Münster, 1983

Positions

08/99 - present	Research Professor, University of Notre Dame
08/95 - 07/99	Research Associate Professor, University of Notre Dame
10/97 - 03/98	Visiting Scientist, Institut für Kernphysik III, Forschungszentrum Karlsruhe
08/94 - 07/95	Associate Faculty Fellow, University of Notre Dame
09/89 - 07/94	Assistant Faculty Fellow, University of Notre Dame
06/86 - 08/89	Research Associate, University of Notre Dame
11/84 - 06/86	Research Investigator, University of Pennsylvania
08/83 - 11/84	Research Associate, Universität Münster

Activities

Member Research Services Committee, Physics Department, 2003 – present
 Member of 2 international conference organizing committees
 Referee for Physical Review, Physical Review Letters, and Nuclear Physics
 Co-working group leader, Deep Underground Science and Engineering Laboratory (DUSEL)
 Reviewer for National Science Foundation, Deutsche Forschungsgemeinschaft, and German-Israeli Foundation for Scientific Research and Development

List of Publications: Joachim Görres

PUBLICATIONS IN REFEREED JOURNALS

“A Differentially Pumped and Recirculating Gas Target,” C. Rolfs, J. Görres, H. Lorenz-Wirzba, P. Schmalbrock, H.P. Trautvetter and W. Verhoeven, Nucl. Instr. and Meth. 157, 19 (1978).

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“The $^4\text{He}(^{12}\text{C},\gamma)^{16}\text{O}$ Reaction at Stellar Energies,” K.U. Kettner, H.W. Becker, L. Buchmann, J. Görres, H. Kräwinkel, C. Rolfs, P. Schmalbrock, H.P. Trautvetter and A. Vlioks, Z. Phys. A308, 73 (1982).

“Stellar Reaction Rate of $^{20}\text{Ne}(\alpha,\gamma)^{24}\text{Mg}$,” P. Schmalbrock, H.W. Becker, L. Buchmann, J. Görres, K.U. Kettner, W.E. Kieser, H. Kräwinkel, C. Rolfs, H.P. Trautvetter, J.W. Hammer, R.E. Azuma, Nucl. Phys. A398, 279 (1983).

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- “Structure of the Very Neutron-Deficient Ge Region: ^{64}Ge and ^{65}Ge ,” J. Görres, T. Chapuran, D.P. Balamuth and J.W. Arrison, *Phys. Rev. Lett.* 58, 662 (1987).
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“High energy-resolution zero-degree facility for light-ion scattering and reactions and iThemba Labs,” R. Neveling, H. Fujita, F.D. Smith, T. Adachi, G.P.A. Berg, E.Z. Buthelezi, J. Carter, J.L. Conradie, M. Couder, R.W. Fearick, S.V. Fortsch, D.T. Fourie, Y. Fujita, J. Görres, K. Hatanaka, M. Jingo, A.M. Krimbholz, C.O. Kureba, J.P. Mira, S.H.T. Murray, P. von Neumann-Cosel, S. O’Brien, P. Papka, I. Poltoraska, A. Richter, E. Sideras-Haddad, J.A. Swartz, A. Tamii, I.T. Usman, and J.J. van Zyl, in *International Physics Conference 2010*, Journal of Physics Conference Series, Volume 312, 052016 (2011).

“Investigating the variation of elastic alpha scattering cross sections in the $A \approx 100$ region,” G.G. Kiss, P. Mohr, Z. Fülöp, G. Gyürky, Z. Elekes, J. Farkas, E. Somorjai, C. Yalcin, D. Galaviz, R.T. Güray, N. Özkan, and J. Görres, in *Nuclear Physics in Astrophysics V*, Journal of Physics Conference Series, Volume 337, 0012029 (2012).

INVITED TALKS

“New Experimental Results for Nuclear Reactions in Explosive Nucleosynthesis” Invited talk, Symposium on the Origin and Distribution of the Elements, New Orleans, LA, Sept. 9, 1987.

“Breakout from the CNO Cycle and the $^{19}\text{Ne}(p,\gamma)^{20}\text{Na}$ Reaction” Seminar, Michigan State University, East Lansing, MI, Nov. 22, 1989.

“Nuclear Structure Studies and Nucleosynthesis Patterns” Invited talk, Workshop on A1200 Experiments, Michigan State University, East Lansing, MI, Feb. 3, 1990.

“Radioactive Ion Beams and Explosive Nucleosynthesis” Invited talk, Eleventh International Conference on the Application of Accelerators in Research and Industry, Denton, TX, Nov. 6, 1990.

“Capture Reactions on ^{14}C and Nonstandard Big Bang Nucleosynthesis” Seminar, Duke University, Durham, NC, May 5, 1991

“Reaction Flow and Nucleosynthesis in the rp-Process” Invited talk, Second International Conference on Radioactive Nuclear Beams, Louvain-la-Neuve, Belgium, Aug. 19-21, 1991.

“rp-Process Measurements with High-Intensity RNBs” Invited Talk, Workshop on the Production and Use of Intense Radioactive Ion Beams at the Isospin Laboratory, Oak Ridge, Tennessee, October 7-11, 1992.

“Strategies for Nuclear Astrophysics Studies with Radioactive Ion Beams” Invited Talk, ISAC Workshop at Chateau Lake Louise Lake Louise, Canada, February 17-19, 1994.

“Nucleosynthesis along the Proton Drip Line” Invited Talk, Gull Lake Conference on Near Physics near the Drip Line, Gull Lake, Michigan, August 21-24, 1996.

“Nuclear Structure and γ -ray Astronomy,” Invited Talk, Workshop on Future Experiments and Detectors for Nuclear Structure and Astrophysics at the Upgraded NSCL, Michigan State University, East Lansing, Michigan, August 8-9, 1997.

“Nuclear Structure and Galactic γ -ray Activity,” Invited Talk, Second Oak Ridge Symposium on Atomic and Nuclear Astrophysics, Oak Ridge, Tennessee, December 2-6, 1997.

“Lifetime of ^{44}Ti as Probe for Supernova Models,” Invited Talk, International Workshop on Gross Properties of Nuclei and Nuclear Excitations, Hirschegg, Austria, January 11-17, 1998.

“Nuclear Structure and Galactic γ -ray Activity,” Invited Talk, Workshop on Applications of High Precision Gamma Spectroscopy, Notre Dame, Indiana, July 1-3, 1998.

“Low-energy resonances in $^{14}\text{N}(\alpha,\gamma)^{18}\text{F}$ and their astrophysical implications,” Invited Talk, 3rd Workshop on Frontiers in Nuclear Astrophysics, Notre Dame, Indiana, April 19-20, 2000.

“Topics in Stellar He Burning,” Invited Talk, Nucleosynthesis 2000 Workshop, American Chemical Society Conference, Washington, DC, August 20-25, 2000.

“Breakout from the CNO cycles,” Invited Talk, 33rd Great Lakes Joint Regional Meeting, American Chemical Society Conference, Grand Rapid, Michigan, June 11-13, 2001.

“Reaction Rates for Helium Burning,” Invited Talk, Eleventh Workshop on ‘Nuclear Astrophysics,’ Ringberg Castle, Germany, February 12, 2002.

“Alpha Capture in Stellar Evolution and Explosion,” Invited Talk, Canadian Association of Physicists Congress, Charlottetown, PEI, Canada, June 8-11, 2003.

“Alpha Capture in Stellar Evolution and Explosion,” Invited Talk, 12th Workshop on ‘Nuclear Astrophysics,’ Ringberg Castle, Germany, February 22, 2004.

The role of alpha induced reactions in nuclear astrophysics,” Invited Lecture, Carpathian Summer School of Physics 2005, Mamaia-Constanta, Romania, June 13-24, 2005.

“Breakout from the CNO cycle,” Invited Talk, International Workshop XXXIV on Gross Properties of Nuclei and Nuclear Excitations Hirschegg, Kleinwalsertal, Austria, January 15-21, 2006.

“Alpha-induced reactions in stellar burning,” Invited Talk, Nuclei in the Cosmos IX, Geneva, Switzerland, June 26-30, 2006.

“Stellar Nuclear Astrophysics II,” Invited Talk, Town meeting on Astrophysics, Study of Nuclei, Neutrinos, Neutrons, Fundamental Symmetries, Chicago, Illinois, January 19-21, 2007.

“Experimental Approaches Towards the Measurement of Alpha Induced Reactions,” Invited Talk, IXth Torino Workshop on Evolution and Nucleosynthesis in AGB Stars, Perugia, Italy, October 22-26, 2007.

“Alpha Capture Studies at Notre Dame,” Invited Talk, Workshop on R-Matrix and Nuclear Reactions in Stellar Hydrogen and Helium Burning, Santa Fe, New Mexico, April 21-23, 2008.

“Neutron Sources in Stellar Carbon Burning,” Invited Talk, Workshop on Frontiers in Nuclear Astrophysics, Waikoloa, Hawaii, October 13, 2009.

“Neutron sources in the s-process,” Invited Talk, 15th Workshop on ‘Nuclear Astrophysics,’ Ringberg Castle, Germany, March 22-27, 2010.

“On the $^{12}\text{C}+^{12}\text{C}$ reaction rate,” Invited Talk, 15th Workshop on ‘Nuclear Astrophysics,’ Ringberg Castle, Germany, March 22-27, 2010.

“Experiments in Nuclear Astrophysics I (charged-particle induced),” Invited Lecture, WE-Heraeus Summer School on Nuclear Astrophysics in the Cosmos, Darmstadt, Germany, July 13, 2010.

“Experiments in Nuclear Astrophysics,” Invited Lectures and Tutorial, SLENA2010, 3rd School-Cum-Workshop on Low Energy Nuclear Astrophysics, Kolkata, India, Nov. 15–19, 2010.

“Nuclear Astrophysics: Where Experiments in Nuclear Physics, Astrophysical Models, and Astronomical Observations meet,” Concluding Remarks, Nucleosynthesis *in vitro* Outreach Program on Nuclear Astrophysics, Saha Institute of Nuclear Physics, Kolkata, India, 20 November 2010.

“Alpha induced reactions at Notre Dame,” Seminar, University of Naples Federico II, Naples, Italy, April 5, 2011.

“Nucleosynthesis of p-nuclei – experimental and theoretical challenges,” Invited Talk, p-process: present status and outlook, Istanbul, Turkey, May 25, 2011.

“The role of alpha induced reaction in the s-process,” Seminar, Michigan State University, East Lansing, MI, September 14, 2011,

“Experimental approach to alpha induced reactions,” Invited Talk, 16th Workshop on Nuclear Astrophysics, Ringberg, Germany, March 26, 2012.

“Neutron Sources and neutron poisons in the s-process,” Invited Talk, XII International Symposium on Nuclei in the Cosmos, Cairns, Australia, August 7, 2012.