



# Curriculum Vitae

## Prof. Dr. Johann Rafelski

Department of Physics  
**The University of Arizona**

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**Personal:** Married with [Victoria A Grossack](#), an author and actuary; two adult children [Marc A. Rafelski](#) and [Susanne M. Rafelski](#) ; EU and USA citizen; Fluent use of English, French, German, and Polish, familiar with several other languages  
Hobbies: skiing, history of (ancient) science and civilization

### CURRENT RESEARCH INTERESTS

1. Vacuum structure of QED; and QCD: quark deconfinement and quark-gluon plasma;
2. Hadronization and freeze-out of matter in laboratory and in the early Universe;
3. Strong Field and critical acceleration; Physics with ultra-intense light pulses; relativistic plasma;

### **EDUCATION**

<i>Abitur:</i>	1968	Goethe Gymnasium, Frankfurt/Main	highest honors and Prize Award
<i>Study:</i>	1968--71	J.W. Goethe University, Frankfurt	'Studienstiftung' Fellowship
<i>Degrees:</i>	1970	Vordiplom	
	1971	Diplom Physiker	
	1973	<b>Dr. Phil. Nat., Theoretical Physics</b>	

### **EMPLOYMENT HISTORY, INCLUDING MAJOR VISITING ENGAGEMENTS**

#### **CURRENT**

Professor of Physics, Department of Physics (tenured);  
Member, Program in Applied Mathematics  
Member, Theoretical Astrophysics Program  
Professor, Arizona Research Laboratory (tenured);

at The University of Arizona  
at The University of Arizona  
at The University of Arizona  
at The University of Arizona

#### **CAREER HISTORY**

1971-73      Assistent, Institut für Theoretische

J.W. Goethe Universität, Frankfurt

	Physik	
1971-93	Guest Scientist	<a href="#">NBS/NIST</a> , Washington, DC
1973-74	Postdoctoral Fellow	<a href="#">University of Pennsylvania</a>
1974-80	Postdoctoral Fellow from 1975 Junior Staff from 1977 on leave	<a href="#">Physics Division, Argonne National Laboratory, Chicago</a>
1977-79	Fellow	<a href="#">CERN, Geneva</a>
1979-83	C3-Professor für Theoretische Physik	<a href="#">J.W. Goethe Universität Frankfurt</a>
1983-87	Chair of Theoretical Physics	<a href="#">University of Cape Town</a>
September 1987	Appointment as full professor with tenure	<a href="#">The University of Arizona</a>

## MAJOR CONSULTING ENGAGEMENTS

1979-14	Guest Scientist	<a href="#">CERN, Geneva</a> : including sabbatical leaves 1982/83, 1986/87, 2000/01, 2004/5
1979-91	Scientific Advisor and Guest Scientist	<a href="#">GSI</a> -Darmstadt, Germany
1983-87	Scientific Advisor	US-MUCF research program BYU/ <a href="#">LAMPF</a> The Los Alamos Meson Physics Facility
1992	Guest Scientist	<a href="#">MPI Max Planck Institut für Physik</a> Werner-Heisenberg Institute, Munich
1993-06	Guest Professor	<a href="#">Universit'e Paris 7, LPTHE</a> (sabbatical leave 1993/94, 2004/5)
2008-09	DFG Excellence Professor	<a href="#">Physik Department, LMU-Munich/Garching, Germany</a> ,
2010-14	Guest Professor	<a href="#">ELI-ILE, ENSTA and LULI, Ecole Polytechnique, Palaiseau, France</a>

## TEACHING and PROFESSIONAL UNIVERSITY EXPERIENCE

- 40 years lecturing at all levels and in most subjects of Physics, with emphasis on subnuclear and foundational physics
- 35 years supervision of graduate students and PhD candidates; see also [STUDENT PAGE](#)
- Development of undergraduate and graduate curricula, definition and development of University courses
- Worked within four different University systems: the US, German, French and English
- Organization of major international conferences, schools and seminar meetings
- Leader of multinational collaborations within and between Europe and the Americas

## GRANTEE:

US-Department of Energy, US-National Science Foundation, NATO-Scientific Affairs Division, Deutsche Forschungsgemeinschaft.

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