

Eugene A. Demler

Harvard University, Department of Physics
Lyman Laboratory 329
17 Oxford Street
Cambridge, MA 02138
phone: (617) 496-1045
fax: (617) 496-2545
demler@physics.harvard.edu

RESEARCH EXPERIENCE	<i>Harvard University</i> , Cambridge, Massachusetts Professor of Physics	2004 - present
	<i>Harvard University</i> , Cambridge, Massachusetts Assistant Professor of Physics	2001 - 2004
	<i>Harvard University</i> , Cambridge, Massachusetts Junior Fellow, Harvard Society of Fellows	1999 - 2001
	<i>Institute for Theoretical Physics</i> , Santa Barbara, California Post-Doctoral Fellow	1998 - 1999
	<i>P.N. Lebedev Physics Institute</i> , Moscow, Russia Diploma student	1991 - 1993
EDUCATION	<i>Stanford University</i> , Stanford, California Ph.D. in Theoretical Physics	1993 - 1998
	<i>Moscow Institute of Physics and Technology</i> , Moscow, Russia M.S. Degree in Theoretical Physics	1988 - 1993
RESEARCH INTERESTS	Strongly correlated electron systems: high temperature superconductors, organic superconductors, heavy-fermion materials, quantum antiferromagnets, quantum Hall systems, colossal magneto-resistance materials, magnetic semiconductors, carbon nanotubes. Ultracold bosonic and fermionic atoms. Dissipation and quantum phase transitions.	
HONORS	Johannes Gutenberg lecture award, Mainz, Germany	2006
	National Science Foundation Career Award	2002
	Sloan Fellowship	2002

**OTHER
PROFESSIONAL
ACTIVITIES**

Member of the Harvard-MIT Center for Ultracold Atoms

Member of the Institute for Theoretical Atomic, Molecular, and Optical Physics at Harvard Smithsonian Center for Astrophysics and Harvard University Physics Department

Foreign Associate of the Quantum Materials Program, Canadian Institute for Advanced Research.

**SYNERGETIC
ACTIVITIES**

Organizer, 2008 Conference on Quantum Noise in Correlated Systems, Weizmann Institute of Science, Israel

Organizer, 2007 Workshop on Quantum Phases of Matter, KITPC, Beijing, China

Organizer, 2006 Workshop on Non-equilibrium Phenomena in Strongly Correlated Quantum Systems, ITAMP, Cambridge, Massachusetts

Organizer, 2006 Winter Aspen Conference on Strong Correlations in Ultra-Cold Fermi Systems, Colorado.

Organizer, 2004 Boulder School for Condensed Matter and Materials Physics, Colorado.

Organizer, 2002 Aspen Winter Conference on Condensed Matter Physics, Colorado.

**TEACHING
EXPERIENCE**

Physics 167 (undergraduate). Condensed matter physics of modern technologies

Physics 181 (undergraduate). Statistical mechanics and thermodynamics

Physics 195 (undergraduate). Introduction to solid state physics.

Physics 268r (graduate). Physics of strongly correlated electron systems

Physics 284 (graduate). Strongly correlated systems in atomic and condensed matter physics

Applied Physics 295a (graduate). Quantum theory of solids I.

Applied Physics 295b (graduate). Quantum theory of solids II.