

# CURRICULUM VITAE

## VICTOR FLAMBAUM

### APPOINTMENTS

- 1991–present: Professor, Chair of Theoretical Physics, Head of Department of Theoretical Physics, University of New South Wales.
- Since 2003 - Scientia Professor , with 30 % salary loading above full professor salary.
- 2005-2009 Australian Professorial Fellow (no teaching duties).
- 1974–1991: Institute for Nuclear Physics , Novosibirsk. Positions: Trainee-researcher, PhD student, Junior Scientist, Senior Scientist, Lead Scientist.
- 1975–1991: Novosibirsk State University. Positions: Assistant, A/Prof., Professor.

### MAJOR AWARDS and HONOURS:

- 2009 **Lyle medal** (Australian Academy of Science).
- 2002 **Centenary medal** (Australia).
- 1983 **Lenin komsomol prize** (highest USSR prize for young people).
- 1981 SD USSR Academy of Science award.
- 1974 Award for best student research work, all-USSR competition.
- 2005 UNSW award for Research Excellence in Science.
- 2000 Templeton award (USA, International).
- 2005 Argonne Fellowship (USA).
- 2005 Australian Professorial Fellowship.
  - 2000 Fellow of Australian Academy of Science.
  - 1992 Fellow of Australian Institute of Physics.
  - 2001 Faculty Professor, UNSW.
  - 2003 Scientia Professor, UNSW.
  - 2004-2006 Member, National Committee for Physics.

A number of the works have been described in APS news, Physics Today, Physics World, Scientific American, Nature, newspapers (New York Times, USA Today, Washington Post, Sydney Morning Herald, Izvestia, etc.), magazines, radio, TV.

### FELLOWSHIPS AND LONG-TERM VISITS:

- 2008 Perimeter Institute for Theoretical Physics.
- 2005,2006,2007 Argonne National Laboratory (Fellow).
- 2003-2004 Institute for Advanced Study, Princeton (Member).
- 2002 Harvard- Smithsonian Centre for Astrophysics.
- 1998 Princeton University (Visiting Fellow).
- 1996 Harvard University and Harvard- Smithsonian Centre for Astrophysics (leader of topical group on violation of fundamental symmetries in atoms at ITAMP).
- 1990-1991 Joint Institute for Laboratory Astrophysics (Visiting Fellow).
- 1988 Niels Bohr Institute (Visiting Scholar).
- 1-2 months visits to Universities of Notre Dame, Milan (at Como), Tel-Aviv, Minnesota, Michigan State, NEC RI.

### PUBLICATIONS

- over 250 publications (over 70 during last 5 years) in atomic, nuclear, elementary particle, solid state, statistical physics and astrophysics in all branches of Physical Review (A,B,C,D,E,L), and leading European journals. 10 Phys. Rev. Lett. papers, 1 Science paper and patent application in 2006-2008. Over 6000 citations (over 3000 during last 5 years), h-index 40.

### **Invitations to give plenary talks at large international conferences including**

- 75 years since Solvay, 2008. Particle physics, Astrophysics and Quantum Field Theory.
- 14th International Conference on Particle Physics, String Theory and Cosmology, PASCOS 08.
- 16th International Conference on Atomic Physics, 1998;
- 17th International Conference on Atomic Physics, 2000;
- 20th International Conference on Atomic Physics, 2006;
- 17th International Spin Physics Symposium SPIN 2006;
- International school "Atomic Optics and Space Physics", 2007;
- Joint international conference Frequency-Time-Navigation, 2007;
- 3rd International Symposium on Symmetries in Subatomic Physics, 2000;
- Chaos in systems of interacting particles, 2001;
- Quantum information: entanglement, decoherence and chaos, 2001;
- DAMOP and DPF Meetings of American Physical Society, 2002;
- Conference on Intersection of Particle and Nuclear Physics, 2003;
- International Conference on Laser Spectroscopy, 2003;
- Nobel symposium, 1992;
- Many other conferences (more than 80 invited talks altogether, 29 published).

In 2008 I was invited to give talks at 16 international conferences and organised international workshop at Perimeter Institute; 8 invitations in 2006; 9 in 2007.

### **Invitations to participate in long-term international research programs and workshops at centres for theoretical physics**

- 1988,1991,1996,2001 Institute for Theoretical Physics, Santa Barbara;
- 1998 International Centre for Theoretical Physics, Trieste;
- 1992,1993,1994,1995,2002,2007,2008 National Institute for Nuclear Theory, Seattle;
- 1995, 1998, 2000 European Centre For Nuclear Theory (ECT), Trento.

### **RESEARCH GRANTS 1999-2008**

- 5 Large Australian Research Council (Discovery) grants,
- 8 small 1-year grants.
- IREX grant (for collaboration with Princeton),
- Templeton foundation award in cosmology (with John Webb).

My name has also been included into a number of international grants with many co-authors.

11 students obtained PhD under my supervision, 2 PhD students now; 15 Honours projects.

### **DEGREES**

- 1987 Doctor of Science (full professor degree).
- 1978 Ph.D, Institute of Nuclear Physics, Novosibirsk.
- 1974 B.Sc. (Physics) with Excellence. Novosibirsk University.