

## Gurzadyan Vahe

Position: Professor

Yerevan Physocs Institute



### I Scientific Work

#### Chaos in Astrophysical and Cosmological Problems

The problems include: chaos in non-linear systems, N-body dynamics, stellar dynamics, cosmic microwave background radiation, large scale structure of the universe, observational cosmology.

#### II Conferences and educational activities

Reports at Marcel Grossmann meetings (1997-), IAU General Assembly (2003), ICRANet workshops, lectures at Bego workshop for IRAP PhD students (2006), lectures at Brazilian school on cosmology (2003).

### Work With Students

Supervisor of IRAP PhD students.

G.Yegorian

H.Khachatryan

### Within ICRANet

Member of Steering committee

### Outside ICRANet

Co-editor, International Journal of Modern Physics D (2001 - )

Co- editor, book series Advances in Astronomy and Astrophysics, Tayler & Francis, Cambridge Scientific Publications (1996-).

Vahe Gurzadyan was born in Yerevan, Armenia (then USSR) in 1955. He graduated Yerevan State University, Chair of Theoretical Physics (1977). Was postgraduate student at Dept. Theoretical Physics, Lebedev Physics Institute, Moscow (1977-1980; 1980 PhD.), DSci, in Theoretical and mathematical physics (1988).

Since 1980 Gurzadyan worked as Research Fellow (Leading Research Fellow since 1989) in Dept. of Theoretical Physics, Yerevan Physics Institute, Yerevan; he is the head of Cosmology Unit since 1989. In 1989 he lectured on dynamical systems in 4 Universities in Japan. He had visiting positions in several Universities: University of Sussex (1996-1997) and since 2001 in ICRA, University of Rome "La Sapienza", ICRANet.

The main topics of his research are: the chaos in non-linear systems, N-body dynamics, stellar dynamics, Cosmic Microwave Background radiation, observational cosmology. He has published 2 monographs, 120 articles, has edited 4 books.

He chaired the Scientific Organizing Committee of workshop "Ergodic Concepts in Stellar Dynamics", Geneva, 1993; the Local Organizing Committee of workshops "The Chaotic Universe", Rome, 1999; "Fermi and Astrophysics", Rome-Pescara, 2001; IX Marcel Grossmann meeting, Rome 2000. Chair of 'Chaos' Parallel sessions at Marcel Grossmann Meetings, Jerusalem, 1997, Rome, 2000, Rio de Janeiro, 2003, Berlin, 2006.

He is co-editor of **Intern.Journ.Modern Phys D** (World Scientific) and of book series '**Advances in Astronomy and Astrophysics**' (Taylor & Francis, UK).

He was member **EUROSCIENCE** Governing Board (elected 1998, reelected 2002).