BRIEF BIOGRAPHICAL NOTE

| Family Name | : Emmanuel FLORATOS |
|------------------|---|
| Birth Date | : Athens 26-11-1947 |
| Citizenship | : Greek |
| Religion | : Christian Orthodox |
| Family Status | : Married, 2 children (Maria , Zoe) |
| Degrees | : B.Sc. Mathematics 1969, Athens University |
| | Ph.D. Theoretical Physics 1973, Athens University |
| Army Obligations | : Navy 1973-1975 (30 Months) |
| Profession | : Prof. Physics Department, Univ. of Crete (1983 -2000) |
| | Prof. Physics Department, Univ. of Athens (2000 -2014) |
| Coordinates | : Physics Department Univ of Athens |
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POSTDOCTORAL –UNIVERSITY PROFESSOR- -INSTITUTE DIRECTOR POSITIONS

| 2000-2014 | : | Prof. Physics, Physics Dept. University of Athens, Athens. |
|-------------|---|--|
| 2000-2003 | : | Director Institute of Nuclear Physics, NCSR "Demokritos", Athens |
| 1995 | : | Visiting Prof Ecole Normale Superieure – CNRS, Paris |
| | | Athens |
| 1995-2000 | : | Director Institute of Nuclear Physics, NCSR "Demokritos", |
| 1990 | : | Visiting Prof. – Ecole Normale Superieure, C.N.R.S., Paris. |
| 1988 - 1989 | : | Sabbatical year – Scientific Associate – CERN (Theory Group) |
| 1984 – 1986 | : | Summer Corresponding Fellow – CERN |
| 1983 -2000 | : | Prof. Physics, Physics Dept. Univ. of Crete – Iraklion. |
| | | Bern. |
| 1981 – 1983 | : | Scientific Associate – Inst. Theor. Physics. (ITP) University of |
| | | Paris, Theory division. |
| 1980 - 1981 | : | Research Associate - Ecole Normale Superieure - C.N.R.S |
| 1978 – 1980 | : | Research Associate – C.E.A. – C.E.N. Saclay Theory division |
| 1978 | : | Scientific Associate – C.N.R.S. Marseille, Theory Group |
| 1976 – 1978 | : | Fellow – CERN, Theory Group |
| 1976 | : | Research visitor ICTP – Trieste |
| 1973 – 1975 | : | NCSR "DEMOKRITOS" Research Associate |

ADMINISTRATION:

| 1985-1988,1991-1994 | Elected Chairman Department of Physic |
|---------------------|--|
| | Univ of Crete Herakleion Crete |
| 1993-1996 | Member NATO Committee ASI |
| 1994-2005 | Greek Delegate at CERN Council |
| 1994-2000 | Council Member Greek Atomic Energy Commission(GAEC) |
| 1997-1998 | Council vice Prsident GAECVice President |
| 1996-2000 | Member National Committee of Science and Techology-Ministry of Development |
| 1995-2003 | Director Institute of Nuclear Physics-NCSR Demokritos |
| 2003-2005 | President of the Center and Chairman of the Board of Directors |
| | National Center for Scientific Research-(NCSR Demokritos |

DISTINCTIONS-HONOURS

| 2003 | : Elected Member, European Academy of Sciences |
|-------|--|
| | (EURASC-BELGIUM) |
| 2004 | Blaise Pascal Medal in Physics ,European Academy of Sciences(EAS) |
| 2005 | : Chevalier De L' Ordre National Du Merite, French Republic: Elected |
| 2010- | Member of the European Academy of Sciences (EAS-Brussels) Elected Member of the Presidium-EURASC: |

RESEARCH INTERESTS

1) Strong Interactions

Perturbative QCD (deep inelastic scattering e^+e^- annihilation, fragmentation function, quarkgluon jets, Non-perturbative QCD (chiral symmetry breaking, large N expansion).

2) Non-perturbative methods in field theory

Spontaneous generation of mass gap in asymptotically free 2-dimensional models. Stochastic quantization approach to field theory and Quantum Mechanics.

3) Strings-Membranes, Self-Duality, Quantum Gravity

String field theory, Infinite Symmetries of Membranes, Membrane limit of YM fields. Self-Duality of Membranes and geometry of 3-manifolds in 3 and 7 dimensions. Self-dual gravity in 8 dimensions. Gravitational Instantons.AdS/CFT,

4) M-Theory, Quantum Mechanics and Quantum Computers

Matrix model for supermembrane in 11 dim. Number theory and Quantum Mechanics for discrete phase-space. Discrete Wavelets, Fast quantum algorithms for quantum computers.Quantum Information and Geometry

Discretized Holography and Black Holes

PUBLICATIONS

- 125 In refereed Journals
- 4500 Citations. (Journals, Proceedings, Books)