

## To the Jubilee of João Paulo de Carvalho Dias on the Occasion of his Seventieth Anniversary

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This double issue of volume 72 of *Portugaliae Mathematica* is dedicated to the jubilee of João Paulo Dias, occurred last November 2014 with his seventieth birthday. Member of the Editorial Board of this journal since 1978, when it recovered its current international status, he served as Editor-in-Chief during more than one decade, from 1996 until 2007.

João Paulo Dias graduated in Mathematical Sciences in 1966 at the *Faculdade de Ciências da Universidade de Lisboa*, where he became *professor extraordinário* in 1976 and *professor catedrático* in 1979 until his jubilee, having been chairman of its Mathematics Department during 1988–1990.

He started his research at the *Centro de Estudos Matemáticos de Lisboa*, during the academic year 1966–1967, working on Functional Analysis and Theory of Distributions under the direction of José Sebastião e Silva (1914–1972), and obtained his Doctorat d'État in March 1971 at the University of Paris VI, under the direction of Jacques-Louis Lions (1928–2001), with the thesis *Une classe de problèmes variationnelles non linéaires de type elliptique ou parabolique*.

From 1971 until 1975, he was a full time researcher of the *Instituto de Alta Cultura* at the *Instituto de Física e Matemática*, in Lisbon, where he collaborated with one of us (HBV) and pursued a long series of works on partial differential equations and nonlinear problems in mathematical-physics, continuing today with about ninety research papers and many international collaborations with more than twenty mathematicians.

Among the multiplicity of original results, we refer his contributions in eigenvalue problems for nonlinear maximal monotone operators in Hilbert spaces and for nonlinear Wheeler-DeWitt operators, on existence, regularity and special properties of solutions to a variety of equations and systems, such as in nematic liquid crystal models, in Schrödinger-Hartree type equations, in Klein-Gordon-Dirac or in nonlinear Schrödinger-inviscid Burgers systems.

João Paulo Dias has been directing research activities in nonlinear partial differential equations since 1981 at the *Centro de Matemática e Aplicações Fundamentais*, associated with the *Faculdade de Ciências da Universidade de Lisboa*,

where he oriented and co-oriented nine PhD theses, including one of us (JFR). He received a Mathematical Sciences prize of the *Academia das Ciências de Lisboa* in 1973, the Gulbenkian Foundation Science and Technology prize in 1979 and the *Grande Oficial da Ordem de Santiago da Espada*, from the President of the Portuguese Republic in 2000.

The twelve research articles by his friends and co-authors included in these two issues of *Portugaliae Mathematica* are dedicated to his seventieth birthday and represent their rather broad views and different approaches, with their original contributions to current research in nonlinear partial differential equations and related topics. They express also our *homage* and gratitude for his continuing stimulus, support and collaboration, as well as our best wishes for the continuation of João Paulo Dias research activity for many more years.

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