

Reactors and Nuclear Safety Unit

Operation and Exploitation of the Reactor, Dosimetry (RPI) and Reactor Calculations

International Journals

M. Felizardo, R.C. Martins, T.A. Girard, A.R. Ramos and J.G. Marques, Acoustic Spatial Localization of Events in Superheated Droplet Detectors, *Nuclear Instruments and Methods in Physics Research A* 599 (2009) 93-99.

J.G. Marques, A.R. Ramos and A. Kling, Planning and Initiation of an I&C System Upgrade for the Portuguese Research Reactor, in "Research Reactor Modernization and Refurbishment", *TECDOC-1625* (IAEA, Vienna, 2009, ISBN 978-92-0-109609-8) pp. 141-151

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J.G. Marques, N.P. Barradas, Reactores nucleares de cisão: presente e futuro, *Gazeta de Física* 32 (2009) 22-26.

Conference Proceedings

J. H. Böck, A. Musilek, J.G. Marques, A. Aszódi, L. Sklenka, Role of Small Research Reactors in Education and Training in Radiological Protection, *Trans. 4th International Conference on Education and Training in Radiological Protection*, Lisbon, November 2009, European Nuclear Society (Brussels, 2009, ISBN: 978-92-95064-08-9)

Communications

Evolution of Nuclear Fission Reactors: Third Generation and Beyond, J.G. Marques, *ICENES 2009*, Ericeira, July 2009 (invited).

Role of Small Research Reactors in Education and Training in Radiological Protection, J.G. Marques, *4th International Conference on Education and Training in Radiological Protection*, Lisbon, November 2009.

Intoduction to codes, N. P. Barradas, *Joint ICTP/IAEA Workshop on Advanced Simulation and Modelling for Ion Beam Analysis*, Abdus Salam International Centre for Theoretical Physics, Trieste, 23-27 February 2009, Itália (invited).

Energy Loss: SRIM, N. P. Barradas, *Joint ICTP/IAEA Workshop on Advanced Simulation and Modelling for Ion Beam Analysis*, Abdus Salam International Centre for Theoretical Physics, Trieste, 23-27 February 2009, Itália (invited).

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Artificial neural networks for ion beam analysis, N. P. Barradas, *Joint ICTP/IAEA Workshop on Advanced Simulation and Modelling for Ion Beam Analysis*, Abdus Salam International Centre for Theoretical Physics, Trieste, 23-27 February 2009, Itália (invited).

Manual analysis: when software is useless, N. P. Barradas, *Joint ICTP/IAEA Workshop on Advanced Simulation and Modelling for Ion Beam Analysis*, Abdus Salam International Centre for Theoretical Physics, Trieste, 23-27 February 2009, Itália (invited).

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J.G. Marques, N.P. Barradas, A.C. Fernandes, A. Kling, A.R. Ramos, RPI Annual Report 2008, ITN/RPI-R-09-106.

J.G. Marques, Behaviour of Wireless Sensors Under Gamma and Fast Neutron Fields, ITN/RPI-R-09-107.

A. Kling, Radiological Control at the Portuguese Research Reactor (RPI), Report January 1 – June 30, 2009, ITN/RPI-R-09-108.

A.C. Fernandes, J.G. Marques, Technical Course on Neutron Spectrometry Via the Multiple-Foil Activation Method, , ITN/RPI-R-09-109.

N.P. Barradas, The IBA Data Format IDF, version 1.0, ITN/RPI-R-2009/110.

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V. Debut, C. Bersac, J. Antunes, Identification of the dynamical bow/string friction interaction force from vibratory measurements using inverse methods. *Proceedings of the 16th International Congress on Sound and Vibration (ICSV09)*, 5-9 July 2009, Krakow, Poland.

X. Delaune, J. Antunes, V. Debut, P. Piteau, L. Borsoi, Modal techniques for remote identification of non-linear reactions at gap-supported tubes under turbulent excitation, *Proceedings of the ASME Pressure Vessel and Piping Conference (PVP2009)*, 26-30 July 2009, Prague, Czech Republic.

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V. Debut, O. Inácio, J. Antunes, Physique et Instruments de Musique: I – Introduction et Instruments à Vent, *Colloquium on “Science and Music”*, 22 September 2009, Institut Franco-Portugais, Lisbon.

O. Inácio, V. Debut, J. Antunes, Physique et Instruments de Musique: II – Instruments à Percussion et Frottés, *Colloquium on “Science and Music”*, 22 September 2009, Institut Franco-Portugais, Lisbon.

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M.C. Freitas, A.M.G. Pacheco, I. Dionísio, B.J. Vieira (2009): Aerosol concentrations and remote sources of airborne elements over Pico mountain, Azores, Portugal. In: *Atmospheric and Biological Environmental Monitoring* (Y.J. Kim, U. Platt, M.B. Gu, H. Iwahashi, Eds.; ISBN: 978-1-4020-9673-0; Springer, Dordrecht, The Netherlands: 137-157.

T.G. Verburg, S.M. Sarmento, H.T. Wolterbeek (2009): Statistical Approaches in Environmental Epidemiology. In: *Advanced Trace Analysis* (S. Lahiri, Ed.; ISBN: 978-81-8487-029-9; Narosa Publishing House, New Delhi, India.

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J.H. Moon, H.M. Dung, S.H. Kim, Y.S. Chung, Implementation of the k_0 -NAA method by using k_0 -IAEA software and the NAA#3 irradiation hole at the HANARO research reactor, *Journal of Radioanalytical and Nuclear Chemistry* **280** (2009) 439–444.

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S.M. Almeida, National system for energy and indoor air quality in buildings, RSECE-QAI, Ponta Delgada, Portugal, Setembro, 2009.

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Thesis

Cátia Sofia Neves Repolho, A Segurança Ambiental num Contexto Escolar, MSc, Faculdade de Direito, Universidade Nova de Lisboa, 28 April 2009.