

VSL Radiation Dosimetry Laboratory

Recent Publications (May 2009 – May 2011)

D.T. Burns and L.A. de Prez, “Key comparison BIPM.RI(1)-K3 of the air-kerma standards of the VSL, Netherlands and the BIPM in medium-energy x-rays”, Metrologia 46 No 1A (Technical Supplement 2009) 06002

C. Kessler, P.J. Allisy-Roberts, D.T. Burns, P. Roger, L.A. de Prez, J.A. de Pooter and P.M.G. Damen, “Comparison of the standards for absorbed dose to water of the VSL and the BIPM for ^{60}Co γ -rays”, Metrologia 46 No 1A (Technical Supplement 2009) 06009

J.A. de Pooter, L. de Prez, W. de Vries E.van Dijk, “Effective reduction of uncertainty for water calorimetry of HDR sources”, ESTRO annual meeting 2009, Maastricht.

Maria Pia Toni, Isabelle Aubineau- Lanièce, Maurizio Bovi, Jean-Marc Bordy, João Cardoso, Bruno Chauvenet, Frantisek Gabris, Jan-Erik Grindborg, Antonio Stefano Guerra, Antti Kosunen, Carlos Oliveira, Maria Pimpinella, Thorsten Sander, Hans-Joachim Selbach, Vladimír Sochor, Jaroslav Šolc, Jacco de Pooter, Eduard van Dijk, “Traceability to absorbed-dose-to-water primary standards in dosimetry of brachytherapy sources used for radiotherapy”, XIX IMEKO World Congress Fundamental and Applied Metrology, 2009, Lisbon, Portugal

M.P. Toni, I. Aubineau-Lanièce, M. Bovi, J. Cardoso, D. Cutarella, F. Gabris, J.E. Grindborg, A.S. Guerra, H. Jarvinen, C. Oliveira, M. Pimpinella, J. Plagnard, T. Sander, H.J. Selbach, V. Sochor, J. Solc, J. de Pooter and E. van Dijk, “A Joint Research Project to improve the accuracy in dosimetry of brachytherapy treatments, in the framework of the European Metrology Research Programme,” World Congress on medical physics and biomedical engineering, Munich, 2009

J.A. de Pooter, L.A. de Prez, *Development of a water calorimeter as a primary standard for absorbed dose to water measurements for HDR brachytherapy sources, International symposium on dosimetry and standards (IODS), Vienna, 2010.*