

NMIJ/AIST Dosimetry Group Publications (2009-2011)

1. N. Takata and Y. Morishita, "Effect of radiation-induced charge accumulation on build-up cap on the signal current from an ionization chamber", to be published in Radiat. Prot. Dosim.(already available in the web)
2. C. Kessler, P. J. Allisy-Roberts, Y. Morishita, M. Kato, N. Tanaka, T. Kurosawa, T. Tanaka, N. Saito, 2011, "Comparison of the standards for absorbed dose to water of the NMIJ and the BIPM for ^{60}Co γ -ray beams", *Metrologia*, **2011**, *48*, *Tech. Suppl.*, **06008**.
3. C. Kessler, D. T. Burns, T. Tanaka, T. Kurosawa and N. Saito, Key comparison BIPM. RI(I)-K7 of the air-kerma standards of the NMIJ, Japan and the BIPM in mammography X-rays, *Metrologia* **47**, 06024 (2010).
4. M. Kato, N. Saito, T. Tanaka, Y. Morishita, H. Kimura, H. Ohashi, M. Nagasono, M. Yabashi, K. Tono, T. Togashi, A. Higashiya and T. Ishikawa, "Pulse energy of the extreme-ultraviolet free-electron laser at SPring-8 determined using a cryogenic radiometer", *Nucl. Inst. Meth. A* **612**, 209-211 (2009).
5. M. Kato, I.H. Suzuki, A. Nohtomi, Y. Morishita, T. Kurosawa, N. Saito, "Photon W-value of dry air determined using a cryogenic radiometer combined with a multi-electrode ion chamber for soft X-rays", *Rad. Phys. Chem.* **79**, 697-404 (2010).
6. M. Kato, N. Saito, K. Tiedtke, P.N. Jurani, A.A. Sorokin, M. Richter, Y. Morishita, T. Tanaka, U. Jastrow, U. Kroth, H. Schöppe, M. Nagasono, M. Yabashi, K. Tono, T. Togashi, H. Kimura, H. Ohashi and T. Ishikawa, "Measurement of the single-shot pulse energy of a free electron laser using a cryogenic radiometer", *Metrologia* **47**, 518-521 (2010).
7. N. Saito, P.N. Jurani, M. Kato, M. Richter, A.A. Sorokin, K. Tiedtke, U. Jastrow, U. Kroth, H. Schöppe, M. Nagasono, M. Yabashi, K. Tono, T. Togashi, H. Kimura, H. Ohashi and T. Ishikawa, Radiometric comparison for measuring the absolute radiant power of a free electron laser in the extreme ultraviolet, N. Saito, M. Kato, et al, *Metrologia* **47**, (1) 21 (2010)