

## **Recent radionuclide metrology publications from the IRA**

- Laedermann Jean-Pascal, Bailat Claude J., Bochud François O.; 'Bayesian statistics in radionuclide metrology: Measurement of a decaying source'; *Metrologia* ; accepted for publication (2007).
- Nedjadi Youcef, Spring Philippe, Bailat Claude, Descombaz Marc, Gostely Jean-Jacques, Laedermann Jean-Pascal, Bochud François; 'Primary activity measurements with 4pg NaI(Tl) counting and Monte Carlo calculated efficiencies'; *Applied Radiations and Isotopes* **65**; pp. 534-538 (2007).
- Bochud François O., Bailat Claude J., Buchillier Thierry, Byrde François, Schmid Ernst, Laedermann Jean-Pascal; 'Simple Monte-Carlo method to calibrate well-type HPGe detectors'; *Nuclear Instruments and Methods in Physics Research A* **569**; pp. 790-795 (2006).
- Cassette, P, Ahn, GH, Alzitzoglou, T, Aubineau-Laniece, I, Bochud, F, Torano, EG, Carles, AG, Malonda, AG, Kossert, K, Lee, KB, Laedermann, JP, Simpson, BRS, van Wyngaardt, WM, Zimmerman, BE, Comparison of calculated spectra for the interaction of photons in a liquid scintillator. Example of Mn-54 835 keV emission. *Applied Radiation and Isotopes*, vol 64 ,11 October, pp 1471-1480, (2006).
- Spring Philippe, Nedjadi Youcef, Bailat Claude, Triscone Gilles, Bochud François; 'Absolute activity measurement of radon gas at IRA-METAS'; *Nuclear Instruments and Methods in Physics Research A* **568**; pp. 752-759 (2006).
- Nedjadi Youcef, Spring Philippe, Zufferey Sandrine, Valley Jean-François, Bochud François O.; 'International Key Comparison of Activity Measurements of <sup>54</sup>Mn'; *metINFO* **13**; p. 19 (2006).
- Laedermann Jean-Pascal, Valley Jean-François, Bochud François O.; 'Measurement of radioactive samples: application of the Bayesian statistical decision theory'; *Metrologia* **42**; pp. 442-448 (2005).
- Wastiel Claude, Valley Jean-François, Bischof Delaloye Angelika, Leresche Michel, Linder Reto, Sassowski Manfred, Bochud François O.; 'Intercomparison of activity measurements for beta-emitters in nuclear medicine'; *Journal of Nuclear Medicine Technology* **33**; pp. 238-242 (2005).