

## KRISS recent Publications and Communications in Neutron Metrology

### ● International

- “Development of low-background CsI(Tl) crystals for WIMP search”, H.S.Lee, H.Bhang, I.S.Hahn, M.J.Hwang, H.J.Kim, S.C.Kim, S.K.Kim, S.Y.Kim, T.Y.Kim, Y.D.Kim, J.W.Kwak, Y.J.Kwon, J.Lee, J.I.Lee, M.J.Lee, J.Li, S.S.Myung, H.Park, J.J.Zhu, *Nucl. Instrum. Meth. A571*, pp644-650, 2007.
- “Neutron calibration facility with radioactive neutron sources at KRISS”, H. Park, J.H. Kim, K.O. Choi, *Tenth Symposium on Neutron Dosimetry (NEUDOS10)*, June 12-16, 2006, Uppsala, Sweden.
- "First limit on WIMP cross section with low background CsI(Tl) crystal detector”, H.S.Lee, H.Bhang, J.H.Choi, I.S.Hahn, D.He, M.J.Hwang, H.J.Kim, S.C.Kim, S.K.Kim, S.Y.Kim, T.Y.Kim, Y.D.Kim, J.W.Kwak, Y.J.Kwon, J.Lee, J.H.Lee, J.I.Lee, M.J.Lee, J.Li, S.S.Myung, H.Park, H.Y.Yang, J.J.Zhu, *Phys. Lett. B 633*, pp201-208, 2006.
- “Development of a Respirator to Protection against Gaseous Tritium used for a Pressurized Heavy Water Reactor and Evaluation of its Performance”, K.-O.Choi, H.Park, H.G.Kim, *Canadian Radiation Protection Association and Campus Radiation Safety Officers Conference 2005*, Canada, 2005.
- “The Measurement of Neutron spectral fluence with Bonner Sphere spectrometer for the dosimetric purpose”, H.Park, J.H.Kim, K.-O. Choi, *Proceedings of International symposium on radiation safety management*, November 2-4, 2005, Daejeon, Korea.
- “Monte Carlo calculation of the efficiency calibration curve for a HPGE detector”, K.H.Ahn, J.K.Chun, J.M.Lee, K.B.Kee, H.Park, C.Y.Lee, *NMIJ-BIPM Workshop on the impact of Information Technology in Metrology*, May 16,18-20, 2005, Tsukuba, Japan.
- “Inhibition of <sup>137</sup>Cs contamination in cesium iodide”, Y.D.Kim, I.S.Hahn, M.J.Hwang, LiJin, W.G.Kang, H.J.Kim, S.C.Kim, S.K.Kim, T.Y.Kim, J.W.Kwak, Y.J.Kwon, E.K.Lee, H.S.Lee, J.I.Lee, M.J.Lee, S.S.Myung, H.Park, A.Schiedt, H.Y.Yang, J.J.Zhu, *Nucl. Instrum. Meth. A552*, pp456-462, 2005.
- “Absolute Measurement of the Neutron Emission Rate with a Manganese Sulphate Bath System”, H.Park, K.-O.Choi, J.M.Lee, K.B.Lee, M.S.Hahn, M.Kralik, *Jour. Korean Phys. Soc.*, 47, pp603-609, 2005.
- “Activation Cross Section Measurements of <sup>16</sup>O(n,3He)<sup>14</sup>C and <sup>16</sup>O(n,t)<sup>14</sup>N above neutron Thrsholds up to 18.1 MeV”, J.H.Park, C.S.Lee, Y.K.Kwon, J.H.Lee, J.Y.Kim, K.B.Lee, H.Park, *Jour. Korean Phys. Soc.*, 47, pp23-27, 2005.

- "A Monte-Carlo Intranuclear Cascade Calculation for the Propagation of Energetic Nucleons in the Nucleus", M.J.Kim, H.Bhang, J.H.Kim, Y.D.Kim, H.Park, J.Chang, Jour. Korean Phys. Soc., 46, pp805-812, 2005.

● **Domestic**

- "Standardization of Mn-56 for the Neutron Emission Rate Standardization", J.M.Lee, J.S.Seo, K.B.Lee, T.S.Park, H.Park, Bulletin of Korean Physical Society, 23/1, p301, 2005.

- "Neutron Response Function of H<sub>2</sub> Filled Spherical Proportional counter", H. Park, Bulletin of the Korean Physical Society, 23/2, p475, 2005.

- "Neutron Spectrometry with Bonner sphere system at nuclear power plant", J.H.Kim, H.Park, K.-O.Choi, Bulletin of the Korean Physical Society, 23/2, p404, 2005