Complete list of publication of S. Mathimalar

A) Publications with peer review process

1. *Study of radioactive impurities in neutron transmutation doped Ge,* **S. Mathimalar***, N. Dokania, V. Singh, V. Nanal, R.G. Pillay, A. Shrivastava, V.M. Datar, K.C. Jagadeesan, S.V. Thakare, Nucl. Instr. and Meth. A,* **774** *(2015) 68.*

2. *Characterization of neutron transmutation doped (NTD) Ge for low temperature sensor development*, **S. Mathimalar**, V. Singh, N. Dokania, V. Nanal, R. G. Pillay, S. Pal, S. Ramakrishnan, A. Shrivastava, Priya Maheswari, P. K. Pujari, S. Ojha, D. Kanjilal, K.C. Jagadeesan and S.V. Thakare, *Nucl. Instr. and Meth. B,* **345** *(2015) 33.*

3. *Heat capacity setup for superconducting bolometer absorbers below* $400mK$, V. Singh, **S. Mathimalar**, N. Dokania, V. Nanal, R. G. Pillay, S. Ramakrishnan, Journal of Low Temperature Physics, **175** (2014) 604.

4. *Study of neutron-induced background and its effect on the search of* $0\nu\beta\beta$ *decay in* ^{124}Sn, N. Dokania, V. Singh, **S. Mathimalar**, C. Ghosh, V. Nanal, R.G. Pillay, S. Pal, K.G. Bhushan and A. Shrivastava, *Journal of Instrumentation*, doi:10.1088/1748-0221/9/11/P11002.

5. *Characterization and modeling of a low background HPGe detector*, N. Dokania, V. Singh, **S. Mathimalar**, V. Nanal, S. Pal, R. G. Pillay, Nucl. Instr. and Meth. A, **745** (2014) 119.

6. *Cryogen Free Dilution Refrigerator for bolometric search of neutrinoless double decay* $(0\nu\beta\beta)$ *in* ^{124}Sn, V. Singh, **Mathimalar. S**, N. Dokania, V. Nanal, R. G. Pillay, S. Ramakrishnan, Pramana - Journal of Physics, **81** (2013) 719.

7. *Specific Heat of Teflon, Torlon - 4203 and Torlon - 4301 in the range of 30 - 400 mK*, V. Singh, A. Garai, **S. Mathimalar**, N. Dokania, V. Nanal, R. G. Pillay, S. Ramakrishnan, Cryogenics, **67** (2015) 15.

B) Others

1. *Development of NTD Ge sensors for low temperature thermometry*, **S. Mathimalar**, V. Singh, N. Dokania, V. Nanal, R. G. Pillay, S. Pal, S Ramakrishnan , A. Shrivastava, Priya Maheswari, P. K. Pujari, S. Ojha, D. Kanjilal, K.C. Jagadeesan and S.V. Thakare, IEEE WOLTE conference, (2014) DOI: 10.1109/WOLTE.2014.6881014.

2. *Testing of the PARIS* $LaBr_3$*-NaI Phoswich Detector with High Energy Gamma-rays*, M. Zibliski , M. Jastrzb , Neha Dokania, V. Nanal, S. Brambilla, P. Bednarczyk, M. Ciemaa, E. Dutkiewicz, M. Kmiecik, M. Krzysiek, J. Lekki, A. Maj, Z. Szklarz, B. Wasilewska, M. Dudeo, K. Hadyska-Klk, P. Napiorkowski, B. Genolini, Ch. Schmitt, W. Catford, M. Nakhostin, N. Yavuzkanat, O. Dorvaux, R.G. Pillay, M.S. Pose, S. Mishra, **S. Mathimalar**, V. Singh, N. Katyan, D.R.

Chakrabarty, V.M. Datar, Suresh Kumar, G. Mishra, S. Mukhopadhyay, D. Pandit, S. Erturk, Acta Phys. Pol. B, **44**, 651 (2013).

3. *Characterisation of a $LaBr_3$[Ce]-NaI[Tl] Phoswich detector for high energy gamma rays*, Neha Dokania, V. Nanal, V. Singh, N. Katyan, **S. Mathimalar**, R.G.Pillay, D.R.Chakabarty, V.M.Datar, S.Kumar, G. Mishra, M.S.Pose, S.Mishra, D.Pandit, S.Mukhopadhay, Proceedings of DAE Symp. on Nucl. Phys. symposium, 57, 874 (2012).

4. *Development of Cryogenic Bolometer for $0\nu\beta\beta$ in ^{124}Sn*, V. Singh, G. Yashwant, **S. Mathimalar**, Neha Dokania, V. Nanal, R. G. Pillay, V. M. Datar, AIP Conf. Proc. 1405, pp. 334-336 (2011).

5. *Neutron Transmutation Doping of nat. Ge for thermal sensors*, Neha Dokania, V. Singh, **S. Mathimalar**, G. Yashwant, S. Thakur, V. Nanal, R. G. Pillay, A. Shrivastava, V. M. Datar, Proceedings of DAE Symp. on Nucl. Phys. symposium, 56, 1136 (2011).

6. *Background radiation measurements at the INO site*, Neha Dokania, V. Singh, **S Mathimalar**, R. Ganai, R. Karnam, V. Kashyap, A.Redij, G.Yashwant, V. Nanal, N. K. Krishnan, R. G. Pillay, R. Acharya, Proceedings of DAE Symp. on Nucl. Phys. symposium, 56, 1138 (2011)