

## FACULTY PROFILE

- 1.Name: Dr. S.Krishnaveni
- 2.Designation: Assistant Professor
3. Qualification: M.Sc. Ph.D.
4. Area of Specialization: Nuclear Physics

**Awards/Recognition :** Four gold medals in M.Sc., Awarded fellowships UPG-JRF, University of Mysore, CSIR-SRF, CSIR-RA.

### **Publications:**

#### **Papers published in the national and international reviewed journals:**

1. Incoherent scattering functions of iron, copper, zirconium, tin, tantalum, tungsten, gold and lead in the momentum range  $2 \leq q \leq 46 \text{ \AA}^{-1}$  at 661.6 keV photon energy. Krishnaveni.S and Ramakrishna Gowda. Nucl.Instrum.Method. Vol. 229/3-4, 333-338, 2005.
2. Incoherent scattering of  $^{137}\text{Cs}$  gamma rays in rare earth elements Nd, Sm, Gd, Dy, Er and Yb. Krishnaveni.S, Shivalinge Gowda, Yashoda T, Umesh T.K. and Ramakrishna Gowda. Rad.Phys.Chem. Vol.74, Issue 1, 1-6, 2005.
3. Studies on x-ray fluorescence in some rare earth and high Z elements excited by 661.6 keV gamma rays. T.Yashoda, S.Krishnaveni, Shivalinge Gowda, T.K.Umesh and Ramakrishna Gowda, Pramana Journal of Physics, Vol.58, No.1, 31-38, 2002.
4. Studies on the photon interaction around the K-absorption of some elements. M.L.Mallikarjuna, Appaji Gowda, Krishnaveni.S, Ramakrishna Gowda and T.K Umesh. Nucl.Sci.Eng.140, 96-102, 2002.
5. Photon mass attenuation coefficients, effective atomic numbers and electron densities of some thermoluminescent dosimetric compounds, Shivalinge Gowda, S.Krishnaveni, T.Yashoda, T.K.Umesh and Ramakrishna Gowda, Pramana Journal of Physics, Vol.63, No.3, 1-13, 2004.
6. Studies on effective atomic number and electron densities in Amino acids and sugars in the energy range 30-1330 keV. Shivalinge Gowda, S.Krishnaveni and Ramakrishna Gowda, Nucl.Instrum.Meth.B Vol.239/4, 361-369, 2005.
7. Measurement of K-shell fluorescence yields for the elements in the range  $22 \leq Z \leq 52$  excited by 14.4 and 122 keV photons. T.Yashoda, S.Krishnaveni and Ramakrishna Gowda. Nucl.Instrum.Meth.B. Vol.240/3, 607-611.2005.

#### **Papers presented in National and International symposia:**

1. Study of photon interaction around the K-edge of some elements. G.SriPrakash, N.Ramesh Reddy, Krishnaveni.S, Ramakrishna Gowda and T.K. Umesh presented in the 8th International symposium on Radiation Physics held at Prauge, during 5-9th June 2000.

2. Attenuation coefficients for photon energy absorption of some thermoluminescent dosimetric compounds, Shivalinge Gowda, S. Krishnaveni, T. Yashoda, T.K. Umesh and Ramakrishna Gowda, presented in the 14th National symposium on Radiation Physics, held at Guru Nanak University, Amritsar during 1-3, Nov. 2001, P-51, 282.

3. Incoherent scattering functions of iron and copper at 661.6 keV incident photon energy, S.Krishnaveni, Shivalinge Gowda, T.Yashoda, T.K. Umesh and Ramakrishna Gowda, presented in the 15th National symposium on Radiation Physics, held at BARC, Mumbai during 12-14, Nov. 2003, P-77, 319.

4. K x-ray production cross sections and fluorescence yields in some low Z elements excited by 14.4 keV photons, T.Yashoda, S.Krishnaveni, Shivalinge Gowda, T.K. Umesh and Ramakrishna Gowda, presented in the 15th National symposium on Radiation Physics, held at BARC, Mumbai during 12-14, Nov. 2003, P-78, 323.

5. Effective atomic numbers and electron densities of some halides, Shivalinge Gowda, S. Krishnaveni, T. Yashoda and Ramakrishna Gowda, presented in the 15th National symposium on Radiation Physics, held at BARC, Mumbai during 12-14, Nov. 2003, P-45, 203.

6. Measurement of K-shell production cross sections for the elements excited by 122 keV photons. T. Yashoda, S.Krishnaveni, Shivalinge Gowda, T.K. Umesh and Ramakrishna Gowda, presented in the 16th National symposium on Radiation Physics, held at Meenakshi College for women, Chennai, during 18-20, Jan. 2006, CP-93, 312.

7. Studies on effective atomic numbers and electron densities of some halides, Shivalinge Gowda, S. Krishnaveni, T. Yashoda and Ramakrishna Gowda, presented in the 16th National symposium on Radiation Physics, held at Meenakshi College for women, Chennai, during 18-20, Jan. 2006, CP-70, 284.

#### **Conference/Seminar participated:**

- i) Participated in the 14th National symposium on Radiation Physics, held at Guru Nanak University, Amritsar during 1-3, Nov. 2001.
- ii) Participated in the 16th National symposium on Radiation Physics, held at Meenakshi College for women, Chennai, during 18-20, Jan. 2006.
- iii) National seminar on crystallography NSC-38, Feb 11-13, 2009, Mysore.
- iv) National conference on thin films and applications during March 06-07, 2009, SASTRA University, Thanjavur.

**Member of authority: Life member - Indian Society for Radiation Physics (NSRP), Mumbai.**

