

### ***Publications***

1. V. K. B. Kota, K. B. K. Mayya and J. A. Castilho Alcaras, Statistical laws for multiplicities of SU(3) irreps  $(\lambda, \mu)$  in the plethysm  $\eta \otimes 3 m \rightarrow (\lambda, \mu)$ , Journal of Physics A: Mathematical and Theoretical, 42, 145201, 20, 2009.
2. V.K.B. Kota, Manan Vyas and K. B. K. Mayya, Spectral distribution analysis of random interactions with J-symmetry and its extensions, International Journal of Modern Physics E., 17, Supp 1, 318, 2009,
3. Anita H. Gharekhan, Siddharth Arora, K. B. K. Mayya, Prasanta K. Panigrahi and Asima Pradhan, Characterizing breast cancer tissues through the spectral correlation properties of polarized fluorescence, Journal of Biomedical Optics, 13, 05, 054063, 2008.
4. K. B. K. Mayya and R. E. Amritkar, Delay correlations in multivariate time series analysis, AAPPS Bulletin , AAPPS Bulletin, 17, 96, 2007.
5. K. B. K. Mayya and M. S. Santhanam, Correlations, delays and financial time series, Econophysics and Sociophysics of Markets and Networks, Proceedings of Econophysics III held in SINP Kolkata, March 12-15, Springer, 2007.
6. K. Murali Mayya, Anand Gole, Nirmesh Jain, Sumant Phadtare, Dominique Langevin, and Murali Sastry, Time-dependent complexation of cysteine-capped gold nanoparticles with octadecylamine langmuir monolayers at the air-water interface, Langmuir, 19, 22, 9147-9154 2003.
7. K. Murali Mayya, Nirmesh Jain, Anand Gole, Dominique Langevin, and Murali Sastry, Time-dependent complexation of glucose-reduced gold nanoparticles with octadecylamine langmuir monolayers, Journal of Colloid and Interface Science, 270, no. 1, 133–139, 2004.

### ***Conference Presentations***

1. Cliff Kant and K. B. K Mayya, Modified drift diffusion equation model for quantum dot solar cell, Proceedings of the International Congress on Renewable Energy, 2014, New Delhi.
2. K. B. K. Mayya and R. E. Amritkar, Analysis of delay correlation matrices, Proceedings of the Third National Conference on Nonlinear Systems and Dynamics, RIASM, University of Madras, Chennai, Feb. 4-6, 2006.
3. K. B. K. Mayya, R. E. Amritkar and M. S. Santhanam, Delay correlation matrices, Dynamics Days Asia Pacific 4, Pohang, Korea, July 12-14, 2006.
4. K. B. K. Mayya, R. E. Amritkar and M. S. Santhanam, Lag correlations in multivariate systems, Statphys-Taiwan-2006, Academia Sinica, Taipei, June 21-26, 2006.

5. K. B. K. Mayya and R. E. Amritkar, Relative entropy of chaotic dynamical systems, Proceedings of STATPHYS22: 22nd IUPAP Conference on Statistical Physics, IISc, Bangalore, India, July 4-9, 2004.
6. K. B. K. Mayya and R. E. Amritkar, Characterization of chaotic data, Proceedings of the second National Conference on Nonlinear Systems and Dynamics, Aligarh Muslim University, Aligarh, India, February, 2005.
7. K. B. K. Mayya and Murali Sastry, Time-Dependent Complexation of Cysteine Capped Gold Nanoparticles with Langmuir Monolayers at the Air-Water Interface, Proceedings of the 3rd National Symposium in Chemistry (NSC-3), Punjab University, Chandigarh, February, 2001.