

## PUBLICATIONS

- *Statistical laws for multiplicities of  $SU(3)$  irreps  $(\lambda, \mu)$  in the plethysm  $\{\eta\}^{\otimes m}$*   $\rightarrow (\lambda, \mu)$ , V. K. B. Kota, K. B. K. Mayya and J A Castilho Alcarás, Journal of Physics A: Mathematical and Theoretical, Vol. 42, 145201, 20pp (2009).
- *Spectral distribution analysis of random interactions with  $J$ -symmetry and its extensions*, V.K.B. Kota, Manan Vyas and K. B. K. Mayya, International Journal of Modern Physics E., Vol. 17, Supp 1, 318 (2009).
- *Characterizing breast cancer tissues through the spectral correlation properties of polarized fluorescence*, Anita H. Gharekhan, Siddarth Arora, K. B. K. Mayya, M. B. Suresh Kumar, Asima Pradhan and Prasanta K. Panigrahi, accepted in Journal of Biomedical Optics.
- *Delay Covariance matrices: Applications in Multivariate Analysis*, K. B. K. Mayya and R. E. Amritkar, to be submitted to Physical Review E.
- *Delay covariance matrix for Random Wishart Ensembles: Analytical distribution for finite delays*, K. B. K. Mayya and R. E. Amritkar, to be submitted to Physical Review E.
- *Delay correlations in multivariate time series analysis*, K. B. K. Mayya and R. E. Amritkar, AAPPS Bulletin, Vol. 17, April 2007.
- *Time-Dependent Complexation of Cysteine-Capped Gold Nanoparticles with Octadecylamine Langmuir Monolayers at the Air-Water Interface*, Mayya et. al., Langmuir, 19, 9147 (2003).
- *Time-dependent complexation of glucose-reduced gold nanoparticles with octadecylamine Langmuir monolayers*, Mayya et. al., Journal of Colloid and Interface Science, 270, 133139 (2004).

## BOOK CONTRIBUTIONS

- *Correlations, delays and financial time series*, K. B. K. Mayya and M. S. Santhanam, Econophysics and Sociophysics of Markets and Networks, Proceedings of Econophysics III held in SINP Kolkata, March 12-15, 2007, Springer.

## PRESENTATIONS AT CONFERENCES AND SYMPOSIA

- *Analysis of delay correlation matrices*, K. B. K. Mayya and R. E. Amritkar, "Proceedings of the Third National Conference on Nonlinear Systems and Dynamics", p. 183, held at RIASM, University of Madras Chennai, Feb. 4-6, 2006; e-print cond-mat/0601279.
- *Delay correlation matrices*, K. B. K. Mayya, R. E. Amritkar and M. S. Santhanam, Dynamics Days Asia Pacific 4, Pohang, Korea 12-14 July 2006.
- *Lag correlations in multivariate systems*, K. B. K. Mayya, R. E. Amritkar and M. S. Santhanam, Statphys-Taiwan-2006, Academia Sinica, Taipei, June 21-26, 2006.
- *Relative entropy of Chaotic Dynamical Systems*, K. B. K. Mayya and R. E. Amritkar, STATPHYS22: 22nd IUPAP Conference on Statistical Physics, July 4-9, 2004.
- *Characterization of Chaotic data*, K. B. K. Mayya and R. E. Amritkar, "Proceedings of the second National Conference on Nonlinear Systems and Dynamics", p. 162, held at Aligarh Muslim University, Aligarh, February, 2005.
- *Poster presentation at "3<sup>rd</sup> National Symposium in Chemistry (NSC-3)"*, held in Punjab University, Chandigarh, February, 2001.