

IIT Bombay is organising an Institute Colloquium on Friday, September 3, 2010. The details are as follows:



Speaker : **Prof. Rajendra Bhatia**
Indian Statistical Institute
New Delhi

Title : **A Brief History of Fourier Series**

Day & Date : Friday, September 3, 2010

Time : 5.10 p.m.

Venue : F.C. Kohli Auditorium

All are Invited.

Abstract: Fourier Series are taught to engineers and scientists as one of the tools or tricks for solving differential equations, and to mathematicians as a source of theorems in analysis. They are in fact directly responsible for the development of a substantial part of mathematics. Such fundamental concepts as set, function, and infinity, got formulated and clarified in attempts to understand convergence of Fourier series. This talk will be a summary of this fascinating history.

About The Speaker:

Prof. Rajendra Bhatia is a Distinguished Scientist at the Indian Statistical Institute, New Delhi. He is a recipient of the S. S. Bhatnagar Prize and the J. C. Bose National Fellowship. He is Fellow of Indian National Science Academy, Indian Academy of Sciences and Third World Academy of Sciences. He is the author of five books, founder editor of the well-known TRIM series, and chief editor of the Proceedings of the International Congress of Mathematicians 2010. His book *Fourier Series*, originally published in TRIM, was later published by Mathematical Association of America, and his first book *Perturbation Bounds for Matrix Eigenvalues* was reprinted in the series SIAM Classics in Applied Mathematics. He is also the author of *Matrix Analysis* that is cited equally often by mathematicians, statisticians, computer scientists and physicists.