A Colloquium on Geometry

in honour of Professor M.S. Narasimhan
to celebrate his 70$^{\text{th}}$ birthday

The Abdus Salam International Centre for Theoretical Physics (Trieste)

December 2-6, 2002

Co-sponsored by:

The Abdus Salam International Centre for Theoretical Physics
International School for Advanced Studies (SISSA)

All lectures will be held in the Main Lecture Hall of the Abdus Salam International Centre for Theoretical Physics

Programme

Monday, December 2

9:00 – 10:00 **Registration:** ICTP Main Bldg, Lobby
(subsequently in Room 106, Main Bldg, first floor)

10:00 Opening

10:15 G. Harder, Moduli spaces in arithmetics

11:45 S. Ramanan, A remark on traditional vanishing theorems

14:30 J.-M. Drezet, Fine moduli spaces of sheaves with many endomorphisms

16:00 P. Newstead, Some applications of Hecke transformations

Tuesday, December 3

10:00 A. Beauville, The theta divisor of a vector bundle

11:30 M.S. Raghunathan, The space of morphisms of an affine curve in a homogeneous space

14:30 T. R. Ramadas, The "Harder-Narasimhan trace" and unitarity of the Hitchin connection

16:00 C.S. Seshadri, M.S. Narasimhan and his work

18:30 Reception

Wednesday, December 4

10:00 M. F. Atiyah, A look at the history of moduli spaces

11:30 M. Maruyama, The elementary transformation as a tool of computation

14:30 N. Nitsure, Representability of GL_E

16:00 Li Jiyau, H-E metrics on parabolic stable bundles

Thursday, December 5

10:00 N. Hitchin, The geometry of the B-field

11:30 G. Trautmann, Stable reduction for families of vector bundles

14:30 R. Parthasarathy, Dirac operators in representation theory — a survey of two topics

16:00 H. Lange, On the Hilbert scheme of a Prym variety

Friday, December 6

10:00 C. Soulé, Rank two stable bundles on Riemann surfaces and Arakelov theory

11:30 S. Kumar, A conjectural generalization of $n!$ result to arbitrary groups