

**ABDUS SALAM SCHOOL OF MATHEMATICAL SCIENCES
&
NATIONAL CENTER FOR MATHEMATICS**

Invites you to a lecture on

KNOTS AND GEOMETRY

by

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ABSTRACT: The speaker will explain the basic idea of a knot invariant using Jones polynomial, HOMFLY polynomial and more recent Khovanov polynomial as examples. He will discuss the "state model" calculation of these invariants and their interpretation in Physics as correlation functions in a quantum field theory. In the end it will be shown that for the case of the unknot and the Hopf link the invariants can be understood in terms of Riemann surfaces with boundaries in a six dimensional manifold.

DATE: Thursday, August 30, 2007

TIME

LECTURE: 11:00 am – 12: 00 pm

Discussion and snacks: 12:00 noon – till it lasts

VENUE

**School of Mathematical Sciences
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