

A A R H U S U N I V E R S I T E T



Center for the Topology and  
Quantization of Moduli Spaces



# PROFESSOR CURTIS T. McMULLEN

MATHEMATICS DEPARTMENT, HARVARD UNIVERSITY.  
CAMBRIDGE, USA.

## CTQM NIELSEN LECTURE

### BILLIARDS AND TEICHMÜLLER CURVES

WEDNESDAY, 2 APRIL, 2008 AT 15:30 IN AUDITORIUM F AT THE DEPARTMENT OF MATHEMATICAL SCIENCES  
FACULTY OF SCIENCE, UNIVERSITY OF AARHUS

ABSTRACT: The moduli space of Riemann surfaces is filled with algebraic curves, but very few of these are isometrically embedded. This talk will present new constructions of these special curves and discuss their relationship to ergodic theory over moduli space, Jacobians with special symmetry, and subgroups of the mapping-class group. Explicit examples give new billiard tables with optimal dynamical properties.

THERE WILL BE A RECEPTION AFTER THE NIELSEN LECTURE

FOR FURTHER INFORMATION, PLEASE CONTACT  
THE CTQM DIRECTOR JØRGEN ELLEGAARD ANDERSEN, [ANDERSEN@IMF.AU.DK](mailto:ANDERSEN@IMF.AU.DK)