



UNIVERSITÀ DELLA CALABRIA

DIPARTIMENTO DI  
MATEMATICA  
E INFORMATICA

Dipartimento di Matematica e Informatica

# Avviso di Seminario

*Giovedì 16 aprile 2015 – ore 15:00*

*Aula MT11 – cubo 30B primo piano*

*il Dr. Misha Feigin*

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terrà un seminario dal titolo:

## *Huygens Principle and integrability*

**Abstract:**

*Huygens Principle in Hadamard's sense for hyperbolic equations states that solution of the Cauchy problem is determined by the initial data on the characteristic conoid rather than on its interior. It is satisfied by the wave equation in odd-dimensional space starting with dimension three but not in even-dimensional space. Hadamard's problem of description of all the equations satisfying Huygens Principle remains open. I am going to review some results about modifications of the wave equation in odd-dimensional space by a potential such that Huygens Principle still holds. This is related to integrability properties of the Schroedinger operator with the same potential. It goes back to the works of Berest, Veselov, Chalykh, the speaker, and others from 1990s.*

Il Direttore del Dipartimento  
*prof. Nicola LEONE*