



**Department of Mathematics
Seminars and Colloquia**

August 18-22, 2008

Function Theory Seminar

Tuesday
August 19

Professor Alexander Getmanenko, Northwestern University
"Resurgent Analysis of the Witten Laplacian in One Dimension"

MATH 211

Abstract: I will begin by an overview of the program to relate deformation quantization and the Fukaya category. After that I will discuss a modification of the semiclassical approximation used to calculate the quantum tunneling effect. Finally, I will present an application of these methods to the study of the Witten Laplacian and explain why they may be helpful in understanding of the Fukaya category.

2:30 P.M.

You can also view this information on our departmental web page:
<http://calendar.science.purdue.edu/math/seminars>