Mathematics Research Center Distinguished Lecture Series

“On the mathematical theory of Black Holes”

Sergiu Klainerman  (Princeton University)

Prof. Klainerman is a member of the U.S. National Academy of Sciences, the French Academy of Sciences and a fellow of the American Academy of Arts and Sciences.

He is a PDE analyst mainly interested in General Relativity. His current interests are on the mathematical theory of black holes more precisely on their rigidity and stability. He is also interested on the issue of the dynamic formation of trapped surfaces and singularities.

He will present three lectures motivated by the recent direct detection of gravitational waves emitted in the final state of a two black hole - merger which gives an emphatic evidence on the physical reality of black holes

April 15, Friday in 380C
2:30 - 3:30 - Lecture titled "The Rigidity problem in GR"
   (3:30 - 4:30 Special Tea - hosted by the Grad Students in the 4th Floor Lounge)

April 18 - Monday in 383N
4:00- 5:00pm Lecture titled "The problem of stability in GR"

April 20 - Wednesday in 384H
4:15 – 5:15 Lecture titled "Collapse to a Black Hole"