Department of Mathematics

SAMUEL EILENBERG LECTURES FALL 2011

Benedict Gross

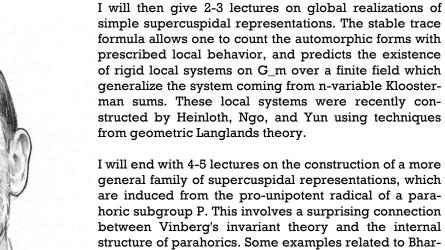
Harvard University

"Representation theory and number theory"

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I plan to give a series of talks, loosely organized around the principle that one can use the (conjectural) local Langlands correspondence to discover interesting results in number theory and representation theory.

I will begin with 4-5 lectures on the local correspondence, including a refinement which predicts the formal degree of a representation in the discrete series. This leads one to the notion of a simple wild parameter, and to the construction of Reeder's simple supercuspidal representations.



gava's recent work on the Selmer groups of elliptic curves will be discussed.

TUESDAYS, 2:40PM BEGINNING SEPT 20TH

ROOM 520 MATHEMATICS HALL

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