Harish-Chandra Research Institute (HRI)

An Aided Institute of the Department of Atomic Energy, Govt. of India
Jhunsi, Prayagraj (Allahabad) -211019, India

Mathematics Colloquium

Speaker : Prof. Haruzo Hida
University of California, L.A.

Title : Iwasawa's dream

Date : 19th December, 2024

Time : 04:00 p.m.

Venue : HRI Auditorium

Tea : 03:45 p.m.

Abstract: We first discuss Conjectures/Problems (in cyclotomic theory) Iwasawa described in one of his final unpublished manuscripts. Then if time allows, we indicate which of his problems has generalizations in more general settings of adjoint Selmer groups via the theory of modular forms.

In the general case, the Iwasawa algebra is replaced by a universal deformation ring (which is a p-adic Hecke algebra by a theorem of Taylor--Wiles). We encounter new interesting features related to Iwasawa's question in the general case.

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