

Fine Selmer group of an elliptic curve is an arithmetic module which is studied in Iwasawa theory. In this talk, we will study the fine Selmer groups associated to modular forms and Λ -adic forms.

Inspired by some deep classical conjectures of Iwasawa and Greenberg, Coates and Sujatha have proposed certain conjectures regarding the structure of the fine Selmer group. We will formulate analogues of these conjectures in the setting of modular forms and also for Λ -adic forms. We will also compare the usual Greenberg Selmer groups in a family of congruent modular forms associated to a Λ -adic form.