

2014학년 1학기

수학전공 Colloquium

◆ 제 목 : Newton stratification on Shimura varieties and Hasse-Weil zeta functions.

◆ 연 사 : 이동욱 (포항공대)

The Newton stratification on a special fiber of a Shimura variety of Hodge type is a stratification defined in terms of the slope sequence of the Frobenius action on the Dieudonne module of abelian varieties ("F-isocrystals with G-structure").

◆ 초 록 : There has been a conjectural group-theoretic description of the F-isocrystals that are expected to show up in a given Shimura variety. We discuss our resolution of this conjecture and its motivation, coming from the wish to have purely group-theoretic formula for the number of points over finite fields of Shimura variety.

The latter is the starting point of the Langlands's program of expressing the Hasse-Weil L-function of a Shimura variety in terms of automorphic L-functions.

◆ 일 시 : 4월 23일(수) 오후 5시

◆ 장 소 : 5동 102