Séminaire de théorie des nombres

Le 27 Mars à 14h

Upper bounds for dimensions of the spaces of p-adic multiple zeta values (and multiple L-values)

Exposé de Go Yamashita

Résumé : We show the upper bounds of p-adic multiple zeta value (resp. L-value) spaces. The bounds are related to algebraic K-theory. It is the p-adic analogue of the theorem of Goncharov, Terasoma, Deligne-Goncharov (resp. Deligne-Goncharov). In the p-adic multiple L-value case, the bounds are not best possible in general. The gap between the true dimensions and the bounds related algebraic K-theory is related to spaces of modular forms, by the similar way as complex multiple L-values. We also formulate the p-adic analogue of Grothendieck's conjecture about an element of motivic Galois group of the category of mixed Tate motives. It seems related to "Cebotarev density" of the motivic Galois group.