Séminaire de théorie des nombres

Le 04 novembre 2019 à 14h (Jussieu)

The strict log jacobian of a log smooth curve

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Résumé : An abelian variety over the fraction field K of a discrete valuation ring R admits a canonical smooth model over R, the Neron model. However, if we allow R to be a regular ring of higher dimension, the same does not hold. The talk will be about smooth group-models of jacobians of curves with nodal degeneration. I will introduce the concepts of log and tropical jacobian, recently redefined by Molcho and Wise, and deduce a criterion for existence of a Neron model in terms of quasi-finiteness of the strict tropical jacobian. I will further give a simple description of the category of all smooth, separated group-models of the jacobian.