

Séminaire de théorie des nombres

Le 27 février 2017 à 14h (Jussieu)

Adelic Cartier divisors with base conditions and the Bonnesen–Diskant–type inequalities

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Résumé : We introduce positivity notions for pairs of adelic \mathbb{R} -Cartier divisors and base conditions, and study fundamental properties of the arithmetic volumes associated to such pairs. As a main result, we show that the Gâteaux derivatives of the arithmetic volume function at big pairs along the directions of adelic \mathbb{R} -Cartier divisors are given by suitable arithmetic positive intersection numbers.