

SÉMINAIRE DE THÉORIE DES NOMBRES

(<http://www.iecn.u-nancy.fr> → Recherche → Séminaire → Théorie des nombres)

à 14h30 en Salle de Séminaires

jeudi 16 février 2006

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The density of unions of arithmetic
progressions and covering systems of congruences

Résumé

We study the problem of bounding the asymptotic density of the set of integers in the union of a finite set of arithmetic progressions where the moduli are taken from an interval. These new estimates are applied to prove conjectures about covering systems of congruences due to Erdos, Ron Graham and Selfridge. This is joint work with Michael Filaseta, Sergei Konyagin, Carl Pomerance and Gang Yu.