

Courant Institute of Mathematical Sciences
Mathematics Colloquium
December 13, 2010

Speaker: **Endre Szemerédi, Hungarian Academy of Sciences**

Title: Long Arithmetic progressions in sumsets

Abstract: We are going to give exact bound for the size of longest arithmetic progression in sumset sums. In addition, we describe the structure of the subset sums, and give applications in number theory and probability theory.

(This part is partially joint work with Van Vu.)