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Almost arithmetic progressions, weak tangents, and Assouad dimension

Professor Jonathan Fraser University of St Andrews

<u>Abstract</u>

An old conjecture of Erdos-Turan states that any set of positive integers whose reciprocals form a divergent series should contain arbitrarily long arithmetic progressions. I will discuss connections between (almost) arithmetic progressions, weak tangents, and Assouad dimension and give a simple proof that sets of positive integers whose reciprocals form a divergent series contain arbitrarily long (almost) arithmetic progressions.

This is joint work with Han Yu (University of St Andrews).

Date: 14 August 2017 (Monday)
Time: 3:30pm – 4:30pm
Venue: Rm. 222, Lady Shaw Building The Chinese University of Hong Kong, Shatin

All are Welcome