



HADAMARD LECTURES 2014

Professor Ben GREEN

« Nilsequences »

//// **Abstract** : Classical Fourier analysis has found many uses in additive number theory. However, while it is well-adapted to some problems, it is unable to handle others. For example, if one has a set A , and one wishes to know how many 3-term arithmetic progressions are contained in A , then Fourier analysis is useful, but if one wishes to count 4-term progressions then it is not. For this, and other, problems the more general notion of a nilsequence is required. Nilsequences are a kind of «higher order character» forming the basis of what is becoming known as «higher-order Fourier analysis». The talks will be about this theory. ////

IHES

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Information and inscriptions

www.fondation-hadamard.fr/

////////// **Monday 26th May** 14h30-16h
 ////////// **Tuesday 27th May** 14h30-16h
 ////////// **Wednesday 28th May** 10h30-12h

////////// **Monday 2nd June** 14h30-16h
 ////////// **Tuesday 3rd June** 14h30-16h
 ////////// **Wednesday 4th June** 10h30-12h

