

**Sophie Grivaux (Univ. Lille)**

*Fourier coefficients of continuous measures on the Furstenberg sequence*

I will explain how to construct continuous probability measures on the unit circle which have the property that the modulus of their Fourier coefficients on the Furstenberg sequence  $\{2^k 3^l ; k, l \geq 1\}$  is bounded away from zero. This answers in the negative a Conjecture of R. Lyons, motivated by the Furstenberg Conjecture concerning  $\times 2$  and  $\times 3$  invariant probability measures on the circle. This is joint work with Catalin Badea (Lille).