

Abstract: This is to report a joint work with Peter Sarnak on his disjointness conjecture of the Mobius function and zero-entropy flows $F=(X, T)$. We establish the conjecture for the following three cases:

- (1) X is a compact abelian group and T is affine;
- (2) X is a nilmanifold and T is affine;
- (3) F is Furstenberg's nonlinear distal flow.