VICTOR CUAUHTÉMOC GARCIA, Universidad Autonoma Metropolitana - Azcapotzalco
Additive basis with coefficients of newforms

Let $f(z) = \sum_{n=1}^{\infty} a(n) e^{2\pi i n z}$ be a normalized Hecke eigenform in $S_{2k}^{\mathsf{new}}(\Gamma_0(N))$ with integer Fourier coefficients.
In this talk, we prove that there exists a constant $C(f) > 0$ such that any integer is a sum of at most $C(f)$ coefficients $a(n)$.