Topics in Disaete Harmanic Analysio

A Highlight of the series of Lectures Thm (3 Prime Thm insectors in ZTZ]) YwcTT JNw interrune V odd nt Z[i] PI, PZ, P3 Primes in ZCi]

 $w/augnew, J P_1, P_2, P_3$ primes in ZCD $n/aug P_1 \in \omega$ $R = P_1 + P_2 + P_3$

Z(i) = I + iI



Towards this direction: - A veruges in Rd, oscillatory estimates - Their Periodic Versions - Theirs versions on Z, which seguire both. - A glimpse at same topics on ZII.

We will focus on · Improving estimates on Z, Z^d · Utilize methods of analytic number theory Hardy, Littlewood, Ramanujan, Vinogsador





Littlewood in 1907





Harmanic Analysis, use ideas of

Stein, Bourgain, and other modern masters







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