Boğaziçi
MATH COLLOQUIUM

Kloosterman Sums for SL_3 long word element

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Abstract: Using the reduced word decomposition of the long word element of the Weyl group element of *SL₃*, we give a nice expression for the long word Kloosterman sum. This beautiful formula also allows us to write the triple divisor function $\Sigma_{u,v,w}(n) = \sum\limits_{n=abc} a^u b^v c^w$ as a Double Dirichlet series of finite exponential sums.

First classical Kloosterman sums, their importance, and matrix formulation will be introduced. This is joint work with Maki Nakasuji of Sophia University (Tokyo).

Date : Thursday, January 9, 2020
Time: 13:30
Place: TB 130, Boğaziçi University