Seminar/Talk

Quadratic forms in 8 prime variables

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Host: Tim Browning

I will discuss a recent paper of mine, the aim of which is to count the number of prime solutions to $Q(p_1,..,p_8) = N$, for a fixed quadratic form Q and varying N. The traditional approach to problems of this type, the Hardy-Littlewood circle method, does not quite suffice. The main new idea is to involve the Weil representation of the symplectic groups $Sp_8(\mathbb{Z}/q\mathbb{Z})$. I will explain what this is, and what it has to do with the original problem. I hope to make the talk accessible to a fairly general audience.

Thursday, November 4, 2021 02:00pm - 03:00pm

https://mathseminars.org/seminar/AGNTISTA

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