## Mathematics and CS Seminar

# 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 $Q\left(p_{1} 1, \ldots, p_{-} 8\right)=N$, 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(Z/qZ). 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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https://ista.ac.at/en/campus/how-to-get-here/ The ISTA Shuttle bus is marked ISTA Shuttle (\#142) and has the Institute Logo printed on the side.

