

## Localised Wannier functions in metallic systems.

David Gontier, CEREMADE

**Abstract:** The construction of exponentially localised Wannier functions is well understood for insulators, but the case of metallic systems has been much less explored. In this talk, we show that  $N$  energy bands of a metal can be exactly represented by  $N + 1$  Wannier functions decaying faster than any polynomial. This is joint work with H. Cornean, D. Monaco and A. Levitt.