

Wegner estimate for Landau Hamiltonians with random breather potential

Matthias Täufer

We consider Landau Hamiltonians with a weak coupling random electric potential of breather type. Under appropriate assumptions we prove a Wegner estimate. It implies the Hölder continuity of the integrated density of states. The main challenge is the problem how to deal with non-linear dependence on the random parameters.

This is joint work with Ivan Veselic.