

The spectral form factor of double star graphs

Marten Kopp

Dept. of Nonlinear Dynamics

MPI for Dynamics and Self-Organization

Göttingen Germany

Using a double star graph as a model for a system with two weakly connected parts, we apply periodic orbit theory to calculate a spectral property, the form factor, and show that deviations from generic random matrix prediction occur due to the new time scale for equilibration between the new parts.