On the Mourre estimates for three-body Floquet Hamiltonians

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In this talk, we consider the Floquet Hamiltonian associated with a three-body Schrödinger operator with time-periodic pair potentials. As for the two-body case, the Mourre estimate for the Floquet Hamiltonian was given in Yokoyama (1998) by introducing a conjugate operator in the standard Mourre theory. On the other hand, as for the many body case, any conjugate operator in the standard theory has not been found before this, although that in an extended theory was given by Møller-Skibsted (2004). We will give a conjugate operator for a three-body Floquet Hamiltonian in the standard Mourre theory.