MECCANICA

A CONFERENCE IN HONOR OF SANDRO GRAFFI ON HIS 65TH BIRTHDAY

THIERRY PAUL

(ECOLE NORMALE SUPERIEURE, PARIS, FRANCE)

LONG TIME SEMICLASSICAL EVOLUTION

We will present some recent results concerning the long time quantum evolution in the semiclassical limit, that is, uniform semiclassical approximation for times diverging as the Planck constant tends to zero. We will present results for both propagation of observables and coherent states in the general situation, and will emphasise several particular cases associated to stable and unstable underlying dynamics for which the time-scales can be improved.