



The goal is to dotain the eq. of motion of birs much the buddenties of the reservoir entering as parameters The Master equation (in the Lindblad form) DEP= EPIHI + 1 Z LLKP ZLK: LIOUILE OPERATORS JLKP = (2 LKPLK - LKLKP- PLKLK) The operators 1 k are commonly referred to as Jump operantors J. Born approximation: At some t=0: 1(0) = P(0) Ro Ro: Initial environment operator If the reservoir is large enough, it is not perturbed by the system ALL)=p(t) Ro 2. Markov approximation It I: and I; are operators of the reservoir, their correlations are localized in time $\langle \Gamma_{i}(t) \Gamma_{j}(t') \rangle \ll \delta(t-t')$ Together, they are called the Born-Markov approximation