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5.0.1 Évolution de la matrice densité

$$\rho = \sum_i |\psi_i\rangle\langle\psi_i| \quad i\hbar\partial_t |\psi\rangle = H |\psi\rangle$$

$$\dot{\rho} = \sum_i p_i \left| \dot{\psi} \right\rangle \langle\psi| + |\psi\rangle \left\langle \dot{\psi} \right|$$

$$\implies \dot{\rho} = -\frac{i}{\hbar}[H, \rho] \rightarrow \mathcal{L}\rho$$