```
 \begin{array}{l} \mathcal{S}(\mathcal{H}) \\ \mathcal{H} \\ \mathcal{S}(\mathcal{H}) := \left\{alloperators\rhoon\mathcal{H}suchthat : \rho^* = \rho, \rho \geq 0, Tr\{\rho\} = 1\right\}. \end{array} 
             \begin{array}{l} \rho_0 \in \mathcal{S}(\mathcal{H}) \\ \mathcal{B}(\mathcal{H}) \\ \mathcal{H}_n \equiv \\ [A,B] := \\ AB - \\ BA \\ \{A,B\} := \\ AB + \\ BA \\ \|A\| \equiv \|A\|_{\infty} := \sup_{\psi \in \mathcal{H}: \|\psi\| = 1} \|A\psi\|. \end{array}
            \begin{array}{l} W \\ W \\ M \\ (\Omega, \mathcal{F}, (\mathcal{F}_t), Q) \\ \mathcal{F} = \\ \mathcal{F}_{\infty} := \\ \bigvee_{t \geq 0} \mathcal{F}_t \\ W \\ \mathcal{R}_j(t), \mathcal{L}(t) \\ M_n \\ n \times \\ \mathcal{R}_j(t)[\tau] = R_j(t)\tau + \tau R_j(t)^*, \\ \mathcal{L}(t) = \mathcal{L}_0(t) + \mathcal{L}_1(t) \end{array}
              \mathcal{L}_1(t)[\tau] = \sum_{j=1}^{m} \left( R_j(t) \tau R_j(t)^* - \frac{1}{2} \left\{ R_j(t)^* R_j(t), \tau \right\} \right)
              \mathcal{L}_0(t)[\tau] = -i[H(t), \tau] + \sum_{j=m+1}^d \left( R_j(t) \tau R_j(t)^* - \frac{1}{2} \left\{ R_j(t)^* R_j(t), \tau \right\} \right)
             \begin{array}{l} R_{j}(t),H(t)\\ \mathcal{H}_{n}\equiv\\ Cn\equiv\\ H(t)=\\ H(t)^{*}\\ t\mapsto\\ H(t)\\ t\mapsto\\ R_{j}(t)\\ \forall T\in\\ (0,+\infty) \end{array}
              \sup_{t \in [0,T]} ||H(t)|| < +\infty, \sup_{t \in [0,T]} \left\| \sum_{j=1}^{d} R_j(t)^* R_j(t) \right\| < +\infty.
^{(2)}\sigma:
                \begin{cases} \sigma(t) = \mathcal{L}(t)[\sigma(t)]t + \sum_{j=1}^{m} \mathcal{R}_{j}(t)[\sigma(t)]W_{j}(t) \\ \sigma(0) = \rho_{0} \in \mathcal{S}(\mathcal{H}) \end{cases},
           (b(0) - \rho_0 \in \mathcal{S}(\mathcal{H}))
m
d
m \leq d
d
(\Omega, \mathcal{F})
\mathcal{F}_t
t
m
W_j(t)
W_j(t)
R_j(t) + R_j(t)^*
t
t
H(t)
R_j(t)
j = m + 1, \dots, d
R_j(t)
j = 1, \dots, m, m
master_SDE and in_1(t), m \leq d,
\mathcal{L}_0(t)
\mathcal{P}_c(t) \mathcal{L}_c(t)
  (3)
```