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The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $t \rightarrow \infty$. It is shown that the solutions of the system (1) are bounded and tend to zero as $t \rightarrow \infty$. The second part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $t \rightarrow 0$. It is shown that the solutions of the system (1) are bounded and tend to zero as $t \rightarrow 0$.

[illegible]

1. $\frac{1}{2} \leq \frac{1}{2} \leq \frac{1}{2}$ 2. $\frac{1}{2} \leq \frac{1}{2} \leq \frac{1}{2}$

1. $\mathcal{A}$ is a σ -algebra on Ω .
 2. $\mathbb{P}$ is a probability measure on $\mathcal{A}$.
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