



# Quantifying environmental memory degree from the aspect of environmental sensitivity

Yao Jin<sup>1</sup>

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## Abstract

An intuitive and natural way to quantify memory effects through measures on a probe quantum system is given from the aspect of sensitivity of environmental state. After several measures on the probe system, the degree of memory effects is given by the maximum distinguishability of output states of probe system corresponding to the variation of past evolution time. Quantum Fisher information on the past evolution duration which reflects the sensitivity of environmental state with respect to the system–environment evolution duration becomes the characteristic parameter of memory degree. The estimation process is applied on both classical and quantum environments, and the memory degree from the aspect of sensitivity of environmental state reflects the memory speed of environment.

**Keywords** Memory degree · Environmental sensitivity · Memory speed

## 1 Introduction

Either classical or quantum, a system evolves with its environment. According to the environmental memory of the past evolution, the evolution of the system is divided into two kinds: Markovian and non-Markovian [1]. In reality, the evolution of the system is treated as Markovian when the environmental fluctuations that carry information about the past evolution are in a relative short-time scale. However, Markovian description is only approximation to most of realistic processes, which are indeed non-Markovian. As a result, quantifying memory effects as well as testing the degree of non-Markovianity becomes an important and challengeable issue.

In the past years, many attempts have been made to define the Markovianity as well as measure the non-Markovianity, such as measures based on monotonicity of

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# Environmental Memory

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