

QBridges

Schrödinger bridges to open quantum systems

FUNDING BODY	Horizon Europe
GRANT AGREEMENT NUMBER (IF ANY)	101151140
WEBSITE	N/A
SOCIAL MEDIA	N/A



SHORT DESCRIPTION OF THE PROJECT

A quantum system is something physical, like a particle, that follows the rules of quantum mechanics. This means it behaves differently from what we expect based on classical mechanics. Quantum systems are inherently unpredictable. Randomness is introduced not only because of how the phenomenom is measured, but also because the interactions with the surrounding environment cannot be controlled. This project seeks to expand the classical theories about random processes in quantum physics in order to optimally control how quantum systems interact with the environment.



WHY IS IT IMPORTANT?

This project aims to develop a theory that can control and estimate the dynamics of these systems to develop more efficient and robust quantic technologies.











