

IQSE AMO QO Seminar Series

Friday, September 9th, 11:30 am ZOOM & IQSE
seminar room (MPHY 578)

Pizza will be served for IQSE members at 11:00 am. The talk will start around 11:30 am

Akram Touil

University of Maryland

Quantum Darwinism: the Origin of Objective Classical Reality

One of the major open problems in theoretical physics is understanding the emergence of classicality from underlying quantum principles. These seemingly peculiar principles are directly at odds with our classical intuition since they are absent in our familiar physical reality. However, within the framework of Quantum Darwinism, the well-studied features of quantum mechanics such as superposition and entanglement are the building blocks of nature that explain and account for our classical everyday observations, hence our perception of classicality.

ZOOM information:

<https://tamu.zoom.us/j/98156251523?pwd=QVdSdGxtL1UyY0g1L083SU5QR0QrUT09>

Meeting ID: 981 5625 1523

Passcode: 297578

One tap mobile

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