

IQSE AMO QO Seminar Series

Tuesday, March 29, 11:30 CST, ZOOM&IQSE
seminar room (MPHY 578)

Pizza will be served for IQSE members at 11:30. The talk will start around 12:00

Devang Naik

Universit'e Bordeaux, CNRS, Talence, France

Glophotonics, Limoges, France

Experimental Ultra-Cold Atoms: from the lab to the real world.

The first part of this talk will be devoted to the essential tools that experimentalists in ultra-cold atoms have at their disposal. I will feature three of my past work where Feshbach Resonances, Optical Lattices, and Cavity QED was used to create novel condensed matter Hamiltonians and I hope start a discussion on possible routes for collaboration. Then I will talk about a new effort to try to bring these technologies to real world applications, including portable BEC machines and precise magnetometers for brain imaging. If time permits, I would also like to discuss some of my theory work on uses of ultra-cold atoms to test fundamental areas in relativistic quantum mechanics.

ZOOM information:

<https://tamu.zoom.us/j/99696662195?pwd=NIFUZFpvamR6YlIBUUZROFVRReFhkQT09>

Meeting ID: 996 9666 2195

Passcode: 757350

162.255.37.11 (US West)

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Join by Skype for Business: <https://tamu.zoom.us/skype/99696662195>