

## **FREE BOUNDARY PROBLEMS IN COMPLEX MATERIALS**

EDUARDO TEIXEIRA (UNIVERSITY OF CENTRAL FLORIDA)

In mathematical models for diffusion, leading (2nd order) coefficients often convey the tangible properties of the medium in which the phenomena take place. In turn, physical complexity of the model is largely encoded within the structure of the media. In this talk, I will discuss some recent investigations on free boundary problems modeled in complex media.