## Supersolutions to Fully Nonlinear PDEs and Convexity

## Diego R. Moreira<sup>1</sup>

In this talk, we present some sharp regularity results related to supersolutions to fully nonlinear equations that enjoy some kind of convexity property. If time allows, ideas of the proof and some open problems will be addressed. This is joint work with Alessio Figalli (ETH-Zurich) and J. Ederson Braga (UFC).

 $<sup>^{1}</sup>$  Universidade Federal do Ceará, UFC  $\,$