

1133-35-36

Chenchen Mou* (muchenchen@math.ucla.edu). *Perron's method for nonlocal fully nonlinear equations.*

This talk is concerned with existence of viscosity solutions of non-translation invariant nonlocal fully nonlinear equations. We construct a discontinuous viscosity solution of such nonlocal equation by Perron's method. If the equation is uniformly elliptic, we prove the discontinuous viscosity solution is Hölder continuous and thus it is a viscosity solution. (Received June 16, 2017)