

1131-76-377

Vu Hoang*, duynguyenvu.hoang@utsa.edu. *Well-defined singularities for a nonlocal transport equation.* Preliminary report.

I consider a simple nonlocal transport equation in one space dimension. While it is easy to show that generic smooth solutions will blow up in finite time, constructing solutions that have a well-defined behavior at the singularity time is a hard problem. I discuss some helpful ideas and some present some preliminary results. (Received July 18, 2017)