## 1127-35-48 Hongjie Dong\* (hongjie\_dong@brown.edu), 182 George Street, Providence, RI 02912, and Hong Zhang (hong\_zhang@brown.edu), 182 George St, Providence, RI 02912. Schauder and Dini type estimates for nonlocal fully nonlinear elliptic and parabolic equations.

In 1934, J. Schauder first established by now well-known Schauder estimates for linear elliptic equations, which became an indispensable tool in the theory of partial differential equations. For fully nonlinear concave elliptic equations, such result was obtained by M. V. Safonov in 1988, following the seminal work of L. C. Evans and N. V. Krylov in early 1980s. I will present some recent work on Schauder estimates for a class of concave fully nonlinear nonlocal elliptic and parabolic equations with rough and non-symmetric kernels, where the data are allowed to be bounded and measurable. A further Dini type estimate will also be discussed. (Received January 12, 2017)