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Phuc C Nguyen* (pcnguyen@math.lsu.edu). *A viewpoint on the Navier-Stokes system and some results from it.*

I will discuss some results on the Navier-Stokes system of equations that involve sharp existence in the stationary case and conditional regularity in the non-stationary case. The common theme is that the quadratic nonlinearity and the pressure are both treated as weights generally belonging to a Sobolev space of negative order. This talk is based on joint work with Tuoc Phan and Cristi Guevara. (Received August 03, 2020)