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Xiang Xu* (x2xu@odu.edu) and **Arghir Zarnescu**. *Eigenvalue preservation for the Beris-Edward system modeling nematic liquid crystals.*

We consider an incompressible Navier-Stokes and Q-tensor system modeling liquid crystal flows of nematic type. The main aim is to prove the eigenvalue preservation property of the Q-tensor part for solutions to the coupled system in 3D. (Received January 16, 2016)