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Xianpeng Hu* (xianpeng@cims.nyu.edu), Courant Institute of Mathematical Sciences, New York University, New York, NY 10012. *Global well-posedness for compressible viscoelastic fluids.*

The global well-posedness of strong solutions for compressible viscoelastic fluids is considered in the framework of critical spaces. The solution is close to an equilibrium. The decays in time for the unknown functions are also obtained. (Received January 14, 2011)