

Existence of regular solutions for a certain type of non-Newtonian Navier-Stokes equations

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Abstract: We consider existence of regular solutions for non-Newtonian fluids in \$\bbr^3\$. For a certain type of non-Newtonian fluids we prove

local existence of unique regular solutions, if the initial data are sufficiently smooth. Moreover, if initial data are sufficiently

small for \$H^3\$-norm, then the regular solution exists globally in time.

