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Existence of minimizers of the neoHookean energy in 3D

We show the existence of weak solutions to the elastic equilibrium equations (in their energy-momentum form) for 3D neo-Hookean materials occupying a hollow reference configuration when subject to axisymmetric Dirichlet data. This is the first general existence result for the borderline quadratic energy in 3D. It is joint work with Rémy Rodiac.