1078-35-320   **Anna L Mazzucato*** (`alm24@psu.edu`). *An existence result for a fluid-structure interaction model.*

We give a sharp trace regularity result for the system of anisotropic elasticity and use it to obtain a new existence result for a fluid-structure interaction model in the case when the structure is an anisotropic elastic body. This is joint work with Igor Kukavica and Amjad Tuffaha. (Received December 12, 2011)