Mathematics > Analysis of PDEs

## Sturmian Multiple Zeros for Stokes and Navier--Stokes Equations in \$1re^3\$ via Solenoidal Hermite Polynomials

V. A. Galaktionov<br>(Submitted on 15 Jul 2011 (v1), last revised 12 Oct 2012 (this version, v2))<br>> Multiple spatial zero formations for Stokes and Navier-Stokes equations in three dimensions are shown to occur according to nodal sets of solenoidal Hermite polynomials. Extensions to well-posed Burnett equations with the biharmonic viscosity operator are also discussed.

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