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Leo G Rebholz* (rebholz@clemson.edu). *Reduced order approximate deconvolution models for turbulent flows: analysis and benchmark computations.*

We propose a minor alteration of a popular Large Eddy Simulation model which lends itself to more efficient and stable numerical algorithms. We will discuss derivation of the ‘new’ model, some fundamental mathematical results for it, efficient and stable algorithms, and benchmark computations. (Received September 11, 2013)