

Abstract Submitted  
for the DFD14 Meeting of  
The American Physical Society

**Shape optimization for continuum with H1 gradient method**

TAKASHI NAKAZAWA, Mathematical Institute, Graduate school of Science, Tohoku University, Japan — In this presentation, shape optimization of continuum is operated in the domain of interest which Navier-Stokes equation governs. And more, DNS is operated for the domain before and after shape optimization. By comparing the results of DNS in the before and after shape optimized domains, it is discussed that which domain is better.

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Date submitted: 17 Jun 2014

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