

## A Mini-Course on Computational Fluid Dynamics

*A mini course: Fundamentals of Computational Fluid & Thermal Engineering :The Governing Equations of Fluid Dynamics*

Prof. Ching-Long Lin

2017 - 12 - 19 (Tue.)

10:20 - 12:00

308, Mathematics Research Center Building (ori. New Math. Bldg.)

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4 models of the flow: integral/differential, conservation/non-conservation  
Substantial derivative and divergence of velocity field Continuity equation  
for four different models Momentum equation and Energy equation Tensor  
notation Strong conservation vs. weak conservation Flux variables vs.  
primitive variables (conservation vs. non-conservation)



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