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Kinetic Mini-Course

Stability on the basic waves for the compressible Navier-Stokes equations

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Abstract

It is well known that we have three kind of basic waves for the Euler system, i.e., shock wave, rarefaction wave and contact discontinuity. In fact, these basic waves capture the large time behavior of the compressible Navier-Stokes equations. In the series lectures, I will show you some stability result on the basic waves for the compressible Navier-Stokes equations. The stability for both the viscous shock wave and contact discontinuity will be reported.

<u>Date</u>	<u>Time</u>	<u>Venue</u>
<i>February 5, 2018 (Monday)</i>	<i>3:00pm – 5:30pm</i>	<i>Room 219</i>
<i>February 6, 2018 (Tuesday)</i>	<i>3:00pm – 5:30pm</i>	<i>Room 222</i>
<i>February 8, 2018 (Thursday)</i>	<i>9:30am – 12:00noon</i>	<i>Room 222</i>
<i>February 9, 2018 (Friday)</i>	<i>9:30am – 12:00noon</i>	<i>Room 219</i>

Venue : *Lady Shaw Building
The Chinese University of Hong Kong*

All are Welcome