

2016 Jacques Solvay International Chair in Physics

Professor Dam Thanh Son

Enrico Fermi Institute, University of Chicago, USA



PROGRAMME

***Inaugural Lecture: Tuesday 4 October at 4 - 5 P.M., Solvay Room**

Fluid viscosity: from Maxwell to black holes

There has been tremendous progress in recent years in our understanding of the behavior of matter in extreme conditions - at very high and very low temperatures. Unexpectedly, physicists have found that some techniques originating from string theory are very useful and gives information about the viscosity of strongly interacting liquids that cannot be obtained by other methods. We trace the history of the notion of viscosity from Maxwell to modern days, and elucidate the relationship between the viscosity and the behavior of black hole horizons.

Lecture 1: Thursday 6 October at 5 - 6 P.M., Solvay Room

CANCELLED *Quantum Hall effects: integer, fractional ***CANCELLED**

Lecture 2: Friday 7 October at 4 - 5 P.M., Solvay Room

CANCELLED *Symmetries of quantum Hall systems***CANCELLED**

Lecture 3: Monday 17 October at 4 - 5 P.M., Solvay Room

CANCELLED *Dirac composite fermion***CANCELLED**

Lecture 4: Tuesday 18 October at 4 - 5 P.M., Solvay Room

CANCELLED *Flux attachment, fermion-boson duality***CANCELLED**

Lecture 5: Wednesday 19 October at 3 - 5 P.M., Solvay Room

CANCELLED *Web of (2+1) dimensional dualities***CANCELLED**

Lecture 6: Thursday 20 October at 4 - 5 P.M., Solvay Room

CANCELLED *Particle vortex duality: bosonic and fermionic versions***

Lecture 7: Friday 21 October at 4 - 5 P.M., Solvay Room

CANCELLED *Outlook***CANCELLED**

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