

ARE WE CLOSE TO RESOLVING QUESTIONS ON HEAT TRANSPORT SCALING IN TURBULENT CONVECTION?

K. R. Sreenivasan
International Centre for Theoretical Physics, Trieste, Italy

Despite much recent work on turbulent convection, detailed questions on how heat transport scales on the Rayleigh number of the flow, the Prandtl number of the fluid, the aspect ratio of the apparatus, and so forth, have remained partially unanswered. The lecture intends to summarize aspects that have slowed progress, and to share the latest attempts made to resolve them.

Since this lecture honours the memory of Professor Satish Dhawan, a giant figure that he was, a brief summary of his contributions to fluid dynamics will be attempted.

Editor's Note: Full paper not received in time for publication.