SCMS Seminar

VALIDITY OF STEADY PRANDTL EXPANSION

Speaker: Yan Guo

Brown University

Lecture

Time: 10:00-10:50,Wednesday, July 24, 2019

Venue: Room 102, Shanghai Center for Mathematical Sciences

Abstract: In a joint work with Sameer Iyer, the validity of steady Prandtl layer expansion is established in a channel. Our result covers the celebrated Blasius boundary layer profile, which is based on uniform quotient estimates for the derivative Navier-Stokes equations, as well as a positivity estimate at the flow entrance.