1142-35-175   **Liaosha Xu***, 141 Cabell Dr, Charlottesville, VA 22903. *Local-in-Time Boundedness of Velocity with Oscillatory Types of Initial Data.*

The purpose of this talk is to introduce a method of deriving space analyticity of Navier-Stokes equations, with special emphasis on the local-in-time solvability with rough initial data. Such topics have long research history. However, recent studies indicate such results hold for Besov and BMO type initial values. The first half of the talk will be a general introduction of the idea for proving space analyticity of NSEs, especially the method with complexified extensions. The second half of the talk will discuss some technical issues for the results with oscillatory types of initial values. (Received September 02, 2018)