1022-76-60   **Dongho Chae*** (`chae@skku.edu`), Department of Mathematics, Sungkyunkwan University, Suwon. *Nonexistence of self-similar singularities in the Euler equations.*

In this talk show that there exists no self-similar finite time blowing up solution to the 3D incompressible Euler equations if the vorticity decays or grows sufficiently fast near infinity in $\mathbb{R}^3$. We also rule out the possibilities of *asymptotically* self-similar singularities for both of the 3D Euler and the 3D Navier-Stokes equations. (Received September 09, 2006)