1053-35-172   **Y. Charles Li*** (`liyan@missouri.edu`). *A Resolution of the Sommerfeld Paradox.*

I will report on a resolution of the Sommerfeld paradox (joint work with Zhiwu Lin, Georgia Tech.), certain numerical implementation (joint work with Yueheng Lan, Tsinghua Univ.), and analytical conditions satisfied by traveling wave (steady state) solutions of Couette, plane/pipe Poieuille flows (joint work with Divakar Viswanath, Univ. Michigan). (Received September 01, 2009)