1153-32-48 **Liwei Chen*** (liweic@ucr.edu). *Cauchy transform and the d-bar equation on product spaces.*

In this talk, we will go over the classical Cauchy formula, then generalize it to a higher dimensional version on product spaces. Meanwhile, this formula provides a solution operator to the d-bar equation. Using this operator, we obtain Sobolev, some special L^p, and some special Holder regularities of the solution. (Received August 13, 2019)