1163-32-1004   **Bingyuan Liu*** (`bingyuan.liu@utrgv.edu`). *Geometry's Influence in the Analysis of Several Complex Variables.*

The boundary geometry of domains plays an important role in mathematics and the sciences. From its shape, one can predict various phenomena. For example, by examining the physical shapes of continents and their coastlines, scientists discovered that Earth's continents were once connected. In mathematics, the shape of a domain is fundamental to many problems related to complex analysis. In this talk, I will address questions motivated from partial differential equations and complex analysis. We will see how the boundary shape influences those answers in a natural way. (Received September 14, 2020)