

1106-D1-2674 **Jennifer Wilson*** (wilsonj@newschool.edu). *Comparing Traditions of Fairness.*

This talk will compare mathematical approaches to sharing resources in three traditions: the division of loaves of bread from the Egyptian Ahmes Papyrus, the “Talmud Rule” for competing claims, and the Islamic inheritance problems analyzed in al-Khuwarizmi’s “al-jabr w’al-muqabala.” We will discuss the fairness principles underlying these traditions and place them in the context of contemporary math literature in the fields of fair division and resource allocation. (Received September 16, 2014)