1082-11-121 **Stephen J. Lester*** (lester@math.rochester.edu). *a-Points of the Riemann zeta-function on the critical line.*

The roots of $\zeta(s) = a$, where a is a nonzero complex number are known as a-points and have long been an object of study in the theory of the Riemann zeta-function. In this talk we will briefly describe some of their properties and discuss the problem of determining how many a-points lie on the line $\Re(s) = 1/2$. (Received July 02, 2012)