

THE COLLEGE OF SCIENCES AND MATHEMATICS &  
THE R. W. YEAGY COLLOQUIUM PRESENT:

# The Necessity of Wavefunctions

by

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MONDAY, NOVEMBER 9TH @ 3:30PM,

MATH BUILDING 357

While we live in world that seems to obey Newtonian mechanics, there is a world hidden in the small spaces that acts very differently. The early 20<sup>th</sup> century was a revolutionary time for our description of mechanics and optics. We will review the state of physics at the start of the 20<sup>th</sup> century and describe some of the experiments that shows the gaps between the physical models of the time and established experimental results. These experiments include both 1 and 2 slit interference patterns, the photoelectric effect, and the Michelson-Morley experiment. We will discuss how the results of these experiments lead physics to a very different view of the way matter and light interact.