

Abstract Submitted
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The effect of physical properties of spheroidal particles on the scattering pattern¹ JEHAN SENEVIRATNE, Department of Physics and Astronomy, Mississippi State University, MATTHEW BERG, Department of Physics, Kansas State University — The focus of this work is to explain the scattering patterns of wavelength-scale spheroidal particles and apply the knowledge to predict the size, shape, and orientation of a particle based on the scattering pattern. Here, scattering patterns of both oblate and prolate particles are studied. Euler rotations are introduced to rotate the particle. The connection between particles internal field and scattering field is explained using phasors.

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