

Abstract Submitted
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Dipole Radiation Interference Patterns¹ KANAN GROSKLOS, XIN LI², Millersville University, HENK ARNOLDUS, Mississippi State University —
When two particles are placed near each other and irradiated by a laser beam, the emitted radiation from each particle will interfere. Dipole radiation is the most elementary radiation and is the focus of our study. We observed the interference pattern of two linear dipoles, at different separations and phase angles in the near and far fields. In particular, the energy flow pattern in the near field between the two dipoles can be complicated and contain singularities and vortices.

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