

Abstract Submitted
for the 4CF07 Meeting of
The American Physical Society

Electrodynamic Image Problem of a Moving Charge and a Conducting Sphere Using Conformal Transformations HIMAL RATHNAKUMARA, MANUEL BERRONDO, BYU, Provo — The problem of the radiation emitted by a charge approaching a conducting sphere is transformed into a dynamic image problem. The solution is henceforth found using conformal transformations in the Clifford algebra formalism. The pivotal point is the concept of the inverse of a vector illustrated first with the static spherical image textbook problem.

Himal Rathnakumara
BYU, Provo

Date submitted: 18 Sep 2007

Electronic form version 1.4