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Electron-Monopole Scattering from Conformal Field Theory

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S-wave scattering of electrons off of heavy magnetic monopoles is an important problem both in formal theory and in particle phenomenology. It has long been understood that this scattering can be effectively studied in two-dimensional conformal field theory with a recently appreciated crucial role played by topological line defects and generalized global symmetry. We use the formalism of boundary CFT to compute the S-matrix to leading order in electromagnetic coupling and find agreement with expectations from unitarity.

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