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Abstract for an Invited Paper for the 4CF15 Meeting of the American Physical Society

Extreme ball lightning, dark matter, and public safety

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The first geophysical evidence consistent with a candidate for dark matter is reported. The evidence consists of verified deformations in a peat-bog witness plate that an eyewitness reported to the Royal Society as having been caused by an extreme ball-lightning event lasting abouts. The deformations are shown to be consistent with a massive, rapidly rotating, magnetized object, whose properties match the theoretical characteristics of a quark nugget. The results suggests that stable quark nuggets indeed exist, form the core of extreme ball lightning, contribute to dark matter, and pose an unexplored threat to public safety.