Abstract Submitted for the FWS14 Meeting of The American Physical Society

Gravitational Origin of the Higgs Boson Mass F. WINTERBERG, University of Nevada, Reno — With a positive-negative Planck mass plasma vacuum model I was able to predict a firewall at the event horizon of a black hole in a paper published in 2001 [1]. This same model can explain the Higgs boson as a particle made up from a very large positive mass $(+10^{13} \text{ GeV})$ quasiparticle gravitationally interacting with a likewise very large negative mass (-10^{13} GeV) quasiparticle of this plasma, resulting in a spin 0 bound state of the positive and negative mass quasiparticles with an energy of the right order of 10^2 GeV to explain the Higgs boson mass as the positive gravitational interaction energy of a very large positive with a very large negative mass [2].

F. Winterberg and Z. Naturforsch, Physical Sciences, 56a, 889 (2001);
69a, 220 (2014)

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Date submitted: 08 Oct 2014

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