New Open Questions FLORENTIN SMARANDACHE, University of New Mexico — The Black Hole’s center, which is a point of infinite density and zero volume, is considered a real physical entity, although it seems a mathematical artifact. So, Fact or Mathematical Artifact? Since no experiment has ever shown a density being infinite for a physical object in the universe, our question is what would be the maximum discovered density in the universe? Would it be possible to create any given density? What is the strongest gravitational field in the universe? What would be the maximum gravitational field to be produced in the laboratory? Similarly, what is the strongest electric field in the universe? What would be the maximum electric field to be produced in the laboratory? Similarly, what is the strongest magnetic field in the universe? What would be the maximum magnetic field to be produced in the laboratory?