

Abstract Submitted  
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**A Two-Step Integrated Theory of Everything (TOE)** ANTONIO COLELLA<sup>1</sup>, IBM — Two opposing TOE visions are, a Two-Step (physics and math) Integrated TOE and Hawking's single math step. The physics step defines relationships between 8 theories: string, particle creation, Higgs forces, spontaneous symmetry breaking, DE, DM, stellar black holes, and Super Universe. Matter/force particles are Planck cube strings. At  $t = 0$ , matter/forces were super force strings in a singularity. Matter creation was a super force's condensation to a matter/Higgs force. Spontaneous symmetry breaking was bidirectional, a matter/Higgs force also evaporated to super force. Three types of permanent matter/forces were: atomic/subatomic matter (up quark, down quark, electron, and 3 neutrino types); DM (zino, photino, and 3 Higgsino types); and DE (8 Higgs forces of up quark, down quark, electron, 3 neutrino types, zino, and photino). Stellar black holes were a quark star (matter) and black hole (energy) composed of Planck cube matter/force strings. In our precursor universe, a quark star (matter) instantaneously evaporated, deflated, and collapsed to its black hole's (energy) singularity creating our universe. String theory unified Planck cube matter/force strings (quantum theory) with infinitely large quark stars (matter) (Einstein's GR).

<sup>1</sup>See first article "An Integrated Theory of Everything - Revision A" on home page [www.antoniocolella.com](http://www.antoniocolella.com)

Antonio Colella  
IBM

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