

# Future of Particle Physics: Alternatives to 100 TeV, PeV Collideers?

**Richard Amoroso**

Noetic Advanced Studies Institute  
[amoroso@noeticadvancedstudies.us](mailto:amoroso@noeticadvancedstudies.us)

**Abstract.** Is there an alternative protocol for the highly successful 100 year history of high energy collision physics? The current  $< 10$  TeV LHC utilizes 8-11 Tesla magnets. For higher strength magnets, energy scales linearly with current and field strength. A 33 TeV 20 Tesla magnet LHC is on a post 2030 time scale. This CERN evolution or a 100 TeV Chinese  $pp$  collider would cost over 30 billion. Energy requirements in collider physics are limited by the uncertainty principle; and the higher the energy the smaller the scale of observation. Here we present a low energy tabletop alternative based on a radical extension of the original hadronic form of string theory for 'viewing' putative SUSY partners in a 'slice' rather than collision producing the standard cross section particle spray. The new slice technique (hyperdimensional space projective geometry) produces a cyclicity which is achieved by utility of a spin coupling resonant manipulation of periodic compactification nodes in HD brane topology (AdS5 Calabi-Yau mirror symmetry) by surmounting the uncertainty principle; a quantum mechanical spacetime limit of the Copenhagen interpretation only. This is a paradigm shift gleaned from recent QED violation experiments at NIST.

*Keywords:* AdS5, Brane, topology, Calabi-Yau symmetry, Collider physics, Hadronic string, M-Theory, QED

## References

[1] Amoroso, R.L., Kauffman, L.H. & Rowlands, P (2013) *The Physics of Reality: Space, Time, Matter, Cosmos*, Hackensack: World Scientific.