

Thanks to the Y(4140) Tetraquark We Have a Signal That a Cosmophoton is Included in MHCE8S Theory to Permit Superfast Communication

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Abstract: The Y(4140) tetraquark plus 40 MeV added energy = 4180 MeV = 4.180 GeV = signal by E8 symmetry that the top quark/bottom quark ratio is of great importance in connection with the possibility of superfast communication.

The importance¹ of tetraquarks as mass signals by Nature in MHCE8S universe theory has largely been overlooked until my recent studies. The Z(4430) tetraquark seems (see my last note) to have a mass signalling the 44.30 billion-year E8 broken-symmetry total age of the 4 cyclic universes that have occurred. Since we had already determined that the total of broken + unbroken ages was 44.70 billion years, this meant that 0.4 (0.1 per cyclic universe) billion years was spent with real unbroken E8 symmetry and this enabled the cyclic universe² to successfully "bounce".

The fact that the top quark/bottom quark ratio is being signaled by the Y(4140) tetraquark as of being of great importance means that man should start looking for the reason why. The particle associated with the faster photon would be the heavier electron: the muon (~ 200X heavier than the electron but the same charge and spin). It probably emanates from or near the massive black hole at the center of our galaxy.

1. "Tetraquark", Wikipedia.org, (2018)
2. Paul J. Steinhardt, Neil Turok, "A cyclic model of the universe", ArXiv HEP-Th/0111030, (2001)