Wether or Not the Strong Force is Included in MHCE8S Theory Produces Two Final Values of Ho

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Abstract: If the strong force is included in MHCE8S theory a final value of Ho= 74.03 brings in the strong force safely energetically (0.86 %) to the theory whereas a reduction in Ho from 74.03 to 73.24 excludes the strong force by ~ 1/4 %.

Since we as yet had seen no use of the strong force in MHCE8S theory, we had concluded that the strong force is not a part of E8 symmetry. However we have found that an additional\(^1\) 545.281 MeV/galaxy-sec will enable the strong force to form the tightest bound nucleus Ni\(^{62}\) (z=28, n=34). See pages 10 and 13 of the cited reference. A way to get this energy is to provide another (4th) dimensionless constant to the theory. The constant 1.000055 already\(^2\) used to signal the 66-million-year-old meteoric extinction event can also be used for this purpose. This constant can bring in 550 MeV/galaxy-sec, which is a factor 550/545.281 = 1.0086542 more than needed. If we decreased Ho from\(^3\) 74.03 to 73.24 (1.0107864) we would have 1.0107864/1.0086542 = 1.0021139 = 0.21139 % = ~1/4 % less energy than needed for the strong force to be included. Careful measurements of Ho will decide this question.

