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## EVIDENCE FOR HIGH DENSITY EARLY UNIVERSE FROM ELEMENTARY PARTICLE PHYSICAL DATA

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As supported by the hoop conjecture we show that elementary particles can transform in to micro black holes when its mass density reaches a critical value. These critical values are found to be proportional to the limiting relativistic mass of these particles given by the expression M=hc/2Gm where m is their rest mass. The mass densities of elementary particle black holes is found to mimic the density of the early universe as predicted by cosmological models from 10-43 to 10-20 seconds from the Big Bang. Photon black holes are shown to be identical to the Planck particles which has the highest mass density in the Universe. Our results suggest that elementary particle observations can be used as a probe to the early universe .

**Presenter:** Prof. T.E, Girish (Department of Physics ,UniversityCollege.Trivandrum 695034 India) **Session Classification:** Parallel