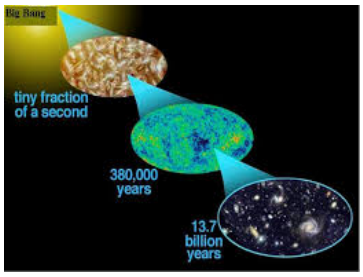

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CALCULATING LEPTONIC CP INVARIANCE FOR FRAMPTON-GLASHOW AND YANAGIDA (FGY) MODEL

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In the present paper, I revisit the relationship between the weak basis invariants (WB) related to CP violation responsible for leptogenesis and CP violation relevant at low energy. To this end, for all the four experimental viable cases pertaining to Frampton-Glashow and Yanagida (FGY) model, I reconstruct the WB invariants in terms of left-handed Majorana neutrino mass matrix elements, and thus finding the necessary and sufficient condition for CP invariance at high energy. Further for all the viable cases, I have shown the explicit dependence of WB invariants on Dirac type and Majorana type CP violating phases. In the end, I discuss the implication of such interrelationships on leptogenesis.

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