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Soft Leptogenesis in Left-Right Symmetric Models ABDEL BACHRI, BABU KALADI — We analyze lepton asymmetry induced in the right handed sneutrino $\tilde{\nu}_{R1} - \tilde{\nu}^{\dagger}_{R1}$ mixing and decay through W_R exchange in a class of left–right symmetric models (SUSYLR). Usual soft leptogenesis scenario requires small $B-$term and relatively low heavy neutrino mass. We include the effect of SUSY breaking contribution on the breaking parameters; and compute r.h.n soft parameters to show that Soft Leptogenesis mechanism implemented in SUSYLR framework leads to adequate baryon number asymmetry in the universe with natural values of Soft breaking parameters; $B \sim 100$ GeV. In this class of models; $M_{\tilde{\nu}_{R1}} \sim M_{W_R} \sim (10^9 - 10^{10})$ GeV, is not required to be small as it is in the original idea. There is no excessive CP violation in these models even when we assume universality of parameters.

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