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SUSY with a light Dirac bino: B meson baryogenesis & sneutrino asymmetric DM

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CP violation has been observed in neutral meson oscillations, which may explain the matter-antimatter asymmetry of the Universe. We found that a supersymmetric theory with an unbroken $U(1)_R$ symmetry and Dirac gauginos can accommodate baryogenesis and asymmetric sneutrino dark matter production via B meson oscillations. This model can be tested via semileptonic asymmetries of B mesons, Flavor violation, exotic B decays, and decay of long-lived particles.

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