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On electron-hole symmetry and phase separation in some electron doped cuprates LEV GOR'KOV, NHMFL, Florida State University, GREGORY TEITEL'BAUM, Zavoiskii Institute, Kazan', Russia — Analyzing the experimental NMR data for electron-doped cuprates, we concluded that the Coulomb effects caused by doping lead to dynamical spatial phase separation that contributes to the nuclear spin relaxation. Remarkable, the “infinite-layer” $\text{Sr}_{0.9}\text{La}_{0.1}\text{CuO}_4$ reveals unexpected electron-hole symmetry. Its ^{63}Cu nuclear spin relaxation rate is the sum of a constant and the temperature dependent components, moreover, the latter turns out to be identical to the $1/63T_1(T)$ -behavior in the stoichiometric $\text{YBa}_2\text{Cu}_4\text{O}_8$. Connection to fluctuation of a magnetic sub-phase is discussed.

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