

Erratum: Optical pumping schemes for nuclear spin polarization of ^{35}Ar [Phys. Rev. A **103**, 013105 (2021)]

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(Received 21 November 2022; published 8 December 2022)

DOI: [10.1103/PhysRevA.106.069901](https://doi.org/10.1103/PhysRevA.106.069901)

We have identified two errors in our paper. First, in Sec. III C, when considering σ^+ light, the density-matrix elements decouple into 21 subgroups (not 15), hence, the last sentence in the caption of Fig. 3 should read “The various shades of gray correspond to the 20 other groups of coupled elements.” Note that the Hermiticity of the density-matrix operator couples back these 20 subgroups pairwise, leaving only 11 strictly uncoupled groups of elements in total. Figure 3 itself is not affected since it correctly depicts the 21 subgroups. Second, Fig. 6 is incorrectly plotted. The correct figure is shown below. This does not impact any of our comments in the text about this figure.

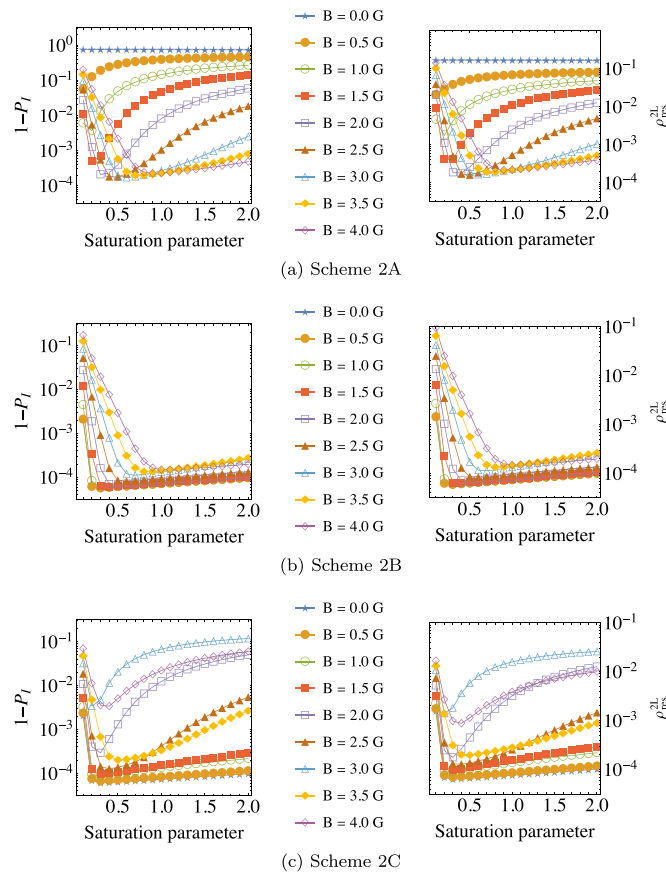


FIG. 6. Two-laser scheme (situations A, B, and C). Final nuclear polarization degree P_f and final residual population ρ_{res}^{2L} after an interaction time of 140 μs . For schemes 2B and 2C: $\delta\nu = 1$ MHz.