INFLUENCE OF SINGLET-TRIPLET MIXING ON THE HYPERFINE STRUCTURE OF $5snd$ RYDBERG STATES IN ^{87}Sr . R. Beigang, E. Matthias, and A. Timmermann [Phys. Rev. Lett. **47**, 326 (1981)].

Since the publication of this article we have learned that the interpretation of the hyperfine splitting as a function of principal quantum number needs to be revised for two reasons: (1) The assumption of pure (jj) coupling for $n \geq 30$ does not reproduce the correct Fermi-contact term a_{5s} .¹ (2) The $5snd\ ^1D_2$ and $5snd\ ^3D_2$ series change character for $n > 16$.² As a consequence, 3D_2 in Fig. 2 should read 1D_2 and Fig. 3 must be replaced by the correct figure shown below.

For a quantitative description of the data, the intermediate coupling scheme has to be applied for *all* values of n . With use of the magnetic dipole matrix elements for an sd configuration in intermediate coupling,³ the admixture per state can be calculated from the measured hyperfine coupling constants. The results agree well with data obtained from MQDT analysis [Fig. 3(a)]. For $25 < n < 40$ an admixture of about 2% $5snd\ ^3D_2$ into the $5snd\ ^1D_2$ states is sufficient to explain the observed hyperfine splitting.

¹M. Heyden and H. Kopfermann, Z. Phys. **108**, 232 (1938).

²P. Esherick, Phys. Rev. A **15**, 1920 (1977).

³A. Lurio, M. Mandel, and R. Novick, Phys. Rev. **126**, 1758 (1962).

FIG. 3(a). Amount of admixture of singlet into triplet states taken from Ref. 2 (solid line). Open circles denote the admixture per state calculated from the data shown in part (b) of the figure. (b) Observed hyperfine coupling constants for $5snd\ ^1D_2$ (solid circles) and 3D_2 (open circles) states as a function of n . The solid lines represent the results of calculations using the intermediate coupling scheme (Ref. 3). The hyperfine coupling constants for pure (jj) coupling are indicated.

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The left-hand side of Eq. (7) should read $\pm(\mu + \tau)$.

The following two sentences are to be added to Ref. 2: "See also Eqs. (4)–(30) of M. S. Chanowitz, J. Ellis, and M. K. Gaillard, Nucl. Phys. B128, 506 (1977). An early non-grand-unified-theory derivation of the relation $c/t = \mu/\tau = s/b$ using intergeneration permutation symmetry is due to S. Pakvasa and H. Sugawara, Phys. Lett. **82B**, 105 (1979)."

In Ref. 4, line 8, 251 should be 351.