⁸The (V_{Ga} , O) defect may in fact be a complex of O with Cu. [See P. J. Dean, *J. Lumin.* **7**, 51 (1978).] However, a Cu complex with O should produce an energy level at essentially the (V_{Ga} , O) energy. The studies of (V_{Ga} , O) in $GaAs_{1-x}P_x$ were performed on ion-implanted samples, where the pair should occur naturally.

⁹The peak luminescence energy for (Si, O) has been used in Fig. 1 since the no-phonon transition energy is unknown. Also the geometry for this pair has not been firmly established. For details, see R. Z. Bachrach, O. G. Lorimar, L. R. Dawson, and K. B. Wolfstirn, *J. Appl. Phys.* **43**, 5098 (1972).

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¹³The antibonding deep level is hostlike and orthogonal to the impuritylike bonding hyperdeep level which, for

electronegative defects, lies within or below the valence band. See Hjalmarsen *et al.*, Ref. 1.

¹⁴The (Ga, O) "pair" is the isolated O defect. By examining Fig. 1, we see that differences in defect potential for the more electropositive spectators Zn, Cd, Mg, and V_{Ga} have little effect on the pair energy because of "pinning." Differences in covalent radii (1.25, 1.48, and 1.36 Å for Zn, Cd, and Mg) also have little effect on a scale > 0.1 eV. The most perplexing feature of the data is that (Ga, O) lies at slightly lower energy than (Si, O), which could be in a different charge state. We also note that the (Si, O) pair occupies an axially distorted environment, but that the (Ga, O) pair can retain the full T_d symmetry. Thus we speculate that slight differences in lattice configuration could produce sufficiently different local screening that an electron can reside nearer O in (Ga, O) than in (Si, O), producing the observed minor misordering. Alternatively, this misordering may indicate that Si does not form a simple substitutional pair with O. A complete discussion will be given in subsequent work.

ERRATUM

OBSERVATION OF UNIDIRECTIONAL AMPLIFIED SPONTANEOUS EMISSION INDUCED BY VELOCITY-DEPENDENT LIGHT SHIFTS. G. Petite, B. C. Johnson, W. K. H. Lange, and M. M. Salour [*Phys. Rev. Lett.* **45**, 1242 (1980)].

Indication of the present and permanent addresses of two of the co-authors should be inserted in the byline, as indicated below.

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