Erratum: Absorption saturation mechanism for YAG:Cr⁴⁺ crystals [Phys. Rev. B **61**, 988 (2000)]

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There are several misprints in our article, which should be corrected.

(1) In the caption to Fig. 4, the last sentence “The dashed line is the same theory curve, but without account of pumping light contribution ($B = 0$)” should be deleted and moved to the caption of Fig. 6, which should read as follows:

FIG. 6. Dependence of polarization extent of luminescence on the power of the beam falling on the crystal. Points: experiment. The solid line is the theory curve according to Eq. (20) fitted to the experimental one. The dashed line is the theory curve, but without account of pumping light contribution ($B = 0$).

(2) Formula (19) should read

$$k_u = -\frac{\ln(T_0)}{\alpha_r d}. \quad (19)$$

(3) Equations (21) and (22) for light propagating along [100] and polarized along [010] and [011] crystallographic axes correspondingly should read

$$dU = \frac{-\ln(T_0)}{l} \left[\frac{hv(1 - k_u^{-1})}{\sigma_{0\pi} + 2\sigma_{0\sigma}} (e^{-U\sigma_{0\pi}/hv} + 2e^{-U\sigma_{0\sigma}/hv} - 3) - \frac{U}{k_u} \right] dz, \quad (21)$$

$$dU = \frac{-\ln(T_0)}{l} \left[\frac{hv(1 - k_u^{-1})}{\sigma_{0\pi} + 2\sigma_{0\sigma}} (2e^{-U\sigma_{0\pi}/2hv} + e^{-U\sigma_{0\sigma}/hv} - 3) - \frac{U}{k_u} \right] dz. \quad (22)$$