

Erratum: Polarization-resolved extinction and scattering cross-section of individual gold nanoparticles measured by wide-field microscopy on a large ensemble [Appl. Phys. Lett. 102, 131107 (2013)]

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The numerical values of the noise calculated using equation (1) should read $\hat{\sigma}_{\text{noise}} = 166 \text{ nm}^2$ instead of $\hat{\sigma}_{\text{noise}} = 589 \text{ nm}^2$ for the $M = 60$ estimate, and $\hat{\sigma}_{\text{noise}} = 6 \text{ nm}^2$ instead of $\hat{\sigma}_{\text{noise}} = 43 \text{ nm}^2$ for the $M = 150$ estimate. Furthermore, shot noise in the data is a factor of $\sqrt{2}$ larger since the difference between two images I_f and I_d is used, and an additional factor $\sqrt{4/3}$ larger due to the noise in the background Δ_b . The equation (1) should thus read

$$\hat{\sigma}_{\text{noise}} = \frac{\lambda d_{\text{px}}}{MNA} \sqrt{\frac{6\pi}{N_a N_{\text{fw}} \nu}} \quad (1)$$

yielding $\hat{\sigma}_{\text{noise}} = 271 \text{ nm}^2$ for the green channel, for which we measured $\hat{\sigma}_{\text{noise}} = 590 \text{ nm}^2$. The measured noise is therefore close to shot noise, but still limited by background fluctuations.

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