## ERRATUM: "GAMMA RAY STUDIES OF BLAZARS: SYNCHRO-COMPTON ANALYSIS OF FLAT SPECTRUM RADIO QUASARS" (2009, ApJ, 692, 32)

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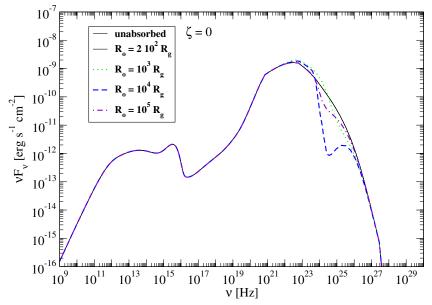
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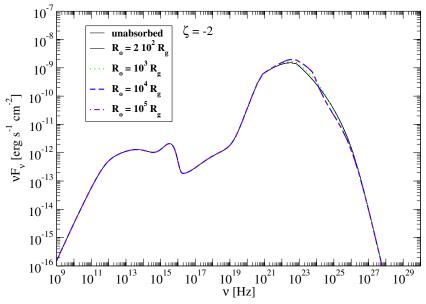
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## Online-only material: color figures

The photo-absorption due to  $\gamma$ -rays interacting with broad line region (BLR) photons was calculated incorrectly in Figures 11 and 12 of the published version of this article. Corrected figures can be found in Figures 1 and 2. We are grateful to Dahai Yan (Yunnan University) for bringing this error to our attention. Absorption effects from the BLR will clearly have less of an observable



**Figure 1.** Corrected version of Figure 11. (A color version of this figure is available in the online journal.)



**Figure 2.** Corrected version of Figure 12. (A color version of this figure is available in the online journal.)

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effect than we concluded, particularly for the  $\xi = -2$  case. However, for the  $\xi = 0$  case, a spectral break is still clearly seen. All our other conclusions remain unchanged.

We also point out a few errors which do not affect our results, as the correct expressions were used in our calculations. Equation (88) of the published article should read

$$\frac{u_*(\epsilon_*)}{4\pi} = u_{bb}(\epsilon_*, \Omega_*) = \frac{2m_e c^2}{\lambda_C^3} \frac{\epsilon_*^3}{\exp(\epsilon_*/\Theta) - 1}$$

i.e., there was an extra factor of c in the numerator.

The equation in the text just above Equation (93) should read

$$\dot{n}(\epsilon_*; \vec{R}) = \dot{N}_{\rm ph}(\epsilon_*) \sigma_{\rm T} n_e(R) / (4\pi R^2),$$

i.e., there was an extra factor of c in the denominator.

Equation (103) should read

$$f_{\epsilon}^{T,\text{iso}} = \frac{c\pi r_e^2 \delta_{\text{D}}^3 u_{*0}}{4\pi d_L^2} \left(\frac{\epsilon_s}{\epsilon_*}\right)^2 \int_{\text{max}(-1,1-2\epsilon_s/\epsilon_*)}^1 d\mu_* \\ \times \int_{\sqrt{\epsilon_s/2\epsilon_*(1-\mu_*)}}^{\infty} d\gamma \ \gamma^2 \ N_e'(\gamma/\delta_{\text{D}})$$

i.e.,  $\delta_D$  should be raised to the power 3 rather than 3 + p.

In Equation (104), the conditional should read

$$\epsilon_* \lesssim \epsilon_s \ll 4\epsilon_* \left(\delta_{\rm D}^2 \gamma_1'\right)^2$$

and in Equation (105) the conditional should read

$$4\epsilon_* (\delta_{\mathrm{D}}^2 \gamma_1')^2 \lesssim \epsilon_s \ll 4\epsilon_* (\delta_{\mathrm{D}}^2 \gamma_2')^2.$$