

## Erratum: "Toward the Detection of Relativistic Image Doubling in Water Cerenkov Detectors" (2020, ApJ, 898, 53)

Neerav Kaushal and Robert J. Nemiroff Michigan Technological University, 1400 Townsend Drive, Houghton, MI 49931, USA; kaushal@mtu.edu, nemiroff@mtu.edu

\*Received 2020 September 13; published 2020 October 6

In our published article, two errors were included inadvertently.

1. The formula Equation (5) for the angular locations of the two images as seen from the detector has a typographical error—it should have an arccos function on the right-hand side argument. The correct form reads

$$\phi_{\pm} = \arccos\left(\frac{(P^2 + L^2 + M^2)\cos\theta + 2L\cos\alpha(z_{\pm} - P\cos\theta) - 2Pz_{\pm}}{2M\cos\theta\sqrt{L^2 - 2L\cos\alpha(P - \frac{z_{\pm}}{\cos\theta}) + \left(P - \frac{z_{\pm}}{\cos\theta}\right)^2}}\right).$$

2. In Section 3.1, example Equation (7) and the sentence including it are ill posed and should be discarded.

These errors, however, do not affect the results, graphs, and other conclusions of our paper in any way. The computer programs and generalized equations of Section 2 were actually used to generate subsequent results, and not the typographically marred Equation (5) nor the ill-posed example Equation (7). We apologize for any possible inconvenience this may have caused.

## ORCID iDs

Neerav Kaushal https://orcid.org/0000-0003-4786-2348

Robert J. Nemiroff https://orcid.org/0000-0002-4505-6599