

Abstract Submitted  
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**Plasma redshift shows that there is no anomalous acceleration of Pioneer 10 and 11** ARI BRYNJOLFSSON, Applied Radiation Industries — In the evaluation of the Pioneer experiments, it has been incorrectly surmised that photon frequency is constant as the photons move from the Earth to the Pioneers 10 and 11. Plasma redshift cosmology shows, however, that photons change their frequency as they penetrate hot coronal, interplanetary plasma. Usually, this hot sparse plasma causes plasma redshift of optical photons. However, when the plasma is relatively cold and the wavelength long (such as in the case of the 13 cm wavelength of the signal photons to the Pioneers) the photons will show a small blue shift; confer the last column in Table 1 in reference: arxiv:astro-ph/0401420, which for  $a > 3.633$  shows negative redshifts; that is, blue shifts. These plasma blue shifts of the signal photons during their travel from the Earth towards and away from the Pioneers have been misinterpreted as being caused by the Doppler shifts interaction of the photons with the Pioneers. These false Doppler blue shifts have then been interpreted as an additional movement in the Pioneers 10 and 11 towards the Sun. Elimination of these false Doppler shifts eliminates the false anomalous accelerations.

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