Astrometry of Galactic star-forming region IRAS 05358+3543 with VERA

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We performed astrometric observations of IRAS 05358+3543 with VERA (VLBI Exploration of Radio Astrometry) at 22 GHz utilising H2O maser emission. The measured parallax was 1.155 ± 0.068 mas, corresponding to a distance of 0.86 ± 0.05 kpc. On the other hand, the Very Long Baseline Array (VLBA) measure an alternative distance of 1.68 kpc, utilising the 6.7 GHz methanol maser transition. This contribution aims to resolve the difference between the VERA and VLBA estimates of the trigonometric distances.