A FORMAL APPROACH TO STELLAR POSITIONS IN SOLAR BARYCENTRIC COORDINATES

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ABSTRACT. In astrometry, construction of stellar catalogues favors so-
lar barycentric coordinates. Classically, they are calculated by li-
nearly removing stellar aberration and annual parallaxes from measured
quantities· yielded by Earth-bound instruments. A global approach is
proposed to account for those two effects from a more general relati-
vistic point of view. Implications for VLBI measurements and HIPPARCOS
measurements of stellar positions are discussed.

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