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CONNECTION OF RADIO-INTERFEROMETRIC WITH OPTICAL OBSERVATIONS AND CREATION OF A NEW REFERENCE FRAME FOR POSITION DETERMINATION OF CELESTIAL OBJECTS

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Abstract. It is undispensable, for observations of stars and other objects for the needs of astrophysical investigations, to know their positions as much precisely as possible. The development of long base radio-interferometry enabled the connection of radio-interferometric and optical observations, and consequently, the connection of reference frame for extra galactic radio sources, which positions are practically unchanged for a number of decades. In such a way, a new reference frame of high accuracy is obtained, where coordinates of observed objects are given.