

Precise Astrometry today and tomorrow, with Next-generation Observatories.

Maria J. Rioja

High precision astrometry provides the foundation to resolve many fundamental problems in astrophysics. The application of astrometric studies spans a wide range of fields, and has undergone enormous growth in recent years. This is as a consequence of the increasing measurement precision and wide applicability, which is due to the development of new techniques.

Forthcoming observatories have the potential to further increase the astrometric precision providing there is a matching improvement in the methods to correct for systematic errors.

The EVN and other observatories are providing demonstrations of these and are acting as pathfinders for instruments such as the SKA and ngVLA.

I will review the state of the art astrometry nowadays and the perspectives for the coming facilities.