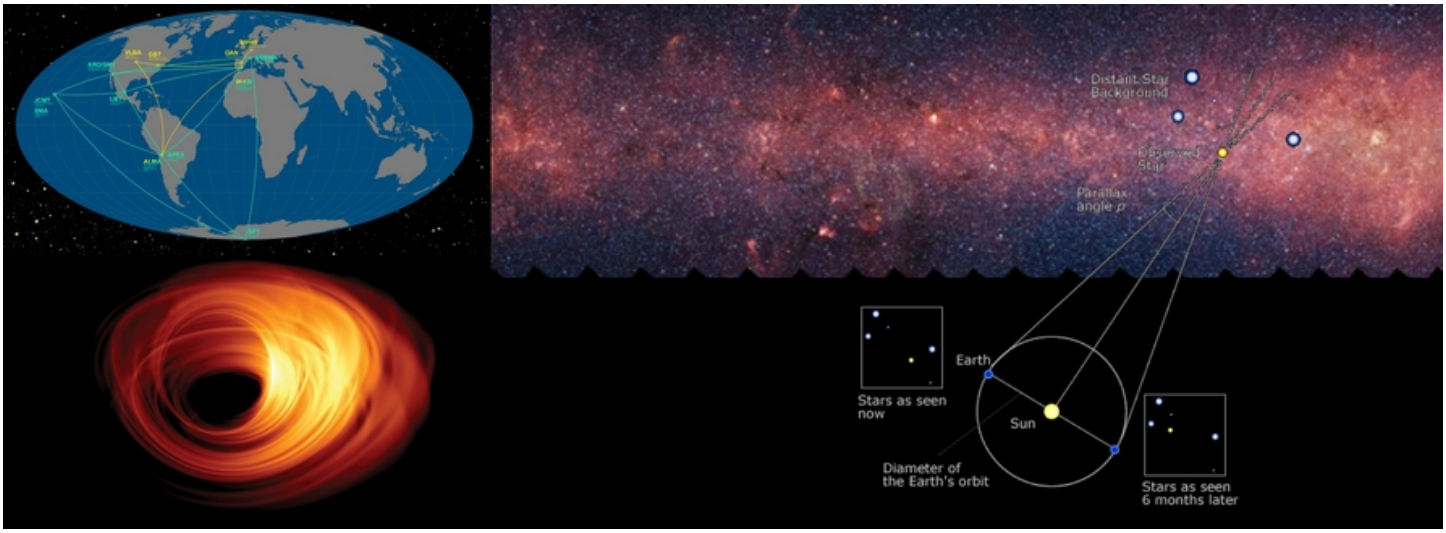
Instituto de Astronomía, sede Ensenada
UNAM, México

Seminario

Jueves 21 de junio, 2018, 11 hrs (PST), Auditorio IA-Ensenada

The Gould's Belt Distances Survey (GOBELINS)



Mérito: NASA

Dr. Laurent Loinard (IRyA)

I will present the results of an radio-astrometric VLBI program (GOBELINS) aimed at measuring the trigonometric parallaxes of tens on young stars distributed over the nearest star-forming regions (Taurus, Ophiuchus, Perseus, Orion, and Serpens). These observations provide the distances to these YSOs to an accuracy of about one percent that surpasses previous (mostly indirect) determinations by one order of magnitude. Aside from improving our knowledge about the distribution of local star-forming regions, these results reveal (for the first time) the 3D structure of individual regions. For instance, Taurus is found to be about 30 pc deep, with different clouds/filaments located at different distances.

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