ID 16

Tipo de Comunicación: Oral

Sesión Científica: La via lactea y sus componentes

Titulo: GALACTICNUCLEUS - a high-angular resolution, near-infrared study of the

Galactic centre

Nombre (Autor que presenta): Rainer

Apellidos (Autor que presenta): Schoedel

Apellidos y nombre de los autores: Schoedel, R.; Gallego, E.; Nogueras, F.; Dong,

H.; Gallego, T.

Resumen:

Because of the unique observational challenges – extreme crowding and extinction – any existing large-scale near-infrared (NIR) imaging data on the Galactic Center (GC) are limited by either one, or a combination, of the following: saturation, lack of sensitivity, too low angular resolution, or lack of multi-wavelength coverage. To overcome this situation, we are currently carrying out a sensitive, 0.2" resolution JHK imaging survey of the Galactic Centre with HAWK-I/VLT. Thanks to holographic imaging, we achieve a similar resolution than with HST/WFC, but can cover also the long NIR, beyond 2 microns, which is essential to deal with extinction. Our survey is supported by an ESO Large Programme and will provide photometrically accurate (few percent uncertainty for H<18 stars), high-angular resolution, NIR data for an area of several 100 pc^2, a more than ten-fold increase compared to the current state of affairs. Here we present and overview and first results.