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Sesión Científica: Galaxias y cosmologia
Titulo: Characterisation of candidate ultra-bright sub-mm galaxies selected from VHS/WISE

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Resumen:

Bright submillimetre galaxies at high redshifts appear to be forming stars at very high rates (1000 /yr). These dust-obscured galaxies in the nIR are very luminous at submillimetre wavelengths with star-forming regions 100 x larger and 106 times more luminous than in normal galaxies. Using as reference the near and mid- IR colours of the lensed sub-mm galaxy SMMJ2135-0102 (z=2.3259, K=18, J-K=2.5, W1-W3=3.3) we carried out a search for brighter analogues of similar colours using VISTA/VHS and WISE over a region of more than 6230 sq. deg.
For selected brightest candidates (K <18) detected in this search it has been requested time to make observations sub-mm, millimeter, optical and near IR (LABOCA / APEX, ALMA, VLT / X-shooter and GTC / OSIRIS). This is to measure their redshifts (expected in the range z = 1-2.5) and determine the properties and evolution of the characteristics of the dust.