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Sesión Científica: Instrumentacion y sipercomputacion

Título: UV+IR mosaicking for study the extinction+emission of gas and dust clouds

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Resumen:

The work with UV images presented in Armengot et al. (SEA XI 2014) allow the study of extinction through computer visual enhancing of these clouds. The composition with IR images of the same sky area introduces a new chance in the analysis of the features of these clouds (composition of gas and dust, temperature, size and shape). When the UV shadows are overlapped on the IR emission of dust grains from distant clouds, the main features of these clouds can be observed and measured. Here are our first experimental results applying these techniques in a data set of UV and IR files from the Taurus region. The results are compared with theoretical models. The software tools for enhancing and the available mosaic programs are referenced as well.