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Título: Dust properties of nearby AGN and normal hosts from Herschel FIR photometry

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Resumen:

We are carrying out a study of the dust properties of spatially well- resolved AGN (mainly Seyfert) and normal hosts from FIR photometry obtained with the PACS and SPIRE instruments on-board the Herschel Space Observatory. We have chosen objects with an apparent size large enough to allow a detailed analysis of the spatial dust properties, notably emissivity, temperature and mass. Assuming an optically thin emission, the flux density can be expressed as $f_{\nu} \sim \nu^{\beta} B(\nu, T_{\text{dust}})$ where β is the dust emissivity. Two components (warm and cold) are being considered. The spatial resolution of our maps corresponds to that of the largest beam (SPIRE 500 μm), with a pixel size of 14". We are also producing maps of star formation rate (SFR). In this poster, we discuss the techniques in use, describe the sample and present some initial results.