ABSTRACT

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Cross-identifications for the HerMES Survey: Providing accurate positions and redshifts for ALMA

Precise positions, sub-mm flux densities and redshift information will be vital for the first sources observed by ALMA. The process by which low resolution Herschel SPIRE sources are associated with high resolution optical/near-IR and radio sources is currently an area of great activity. For HerMES we have developed a map-based algorithm which reliably returns the best-fit SPIRE flux for input source lists many times greater than the traditional confusion limit. In this presentation we outline the mathematical basis for this method, and the levels of SPIRE flux and positional accuracy that can be expected by users of HerMES catalogues.