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CHARM2: An updated Catalog of High Angular Resolution Measurements

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Abstract

We present an update of the Catalog of High Angular Resolution Measurements (CHARM, Richichi & Percheron 2002, A&A, 386, 492), which includes results available until July 2004. CHARM2 is a compilation of direct measurements by high angular resolution methods, as well as indirect estimates of stellar diameters. Its main goal is to provide a reference list of sources which can be used for calibration and verification observations with long-baseline optical and near-IR interferometers. Single and binary stars are included, as are complex objects from circumstellar shells to extragalactic sources. The present update provides an increase of almost a factor of two over the previous edition. Additionally, it includes several corrections and improvements, as well as a cross-check with the valuable public release observations of the ESO Very Large Telescope Interferometer (VLTi). A total of 8231 entries for 3238 unique sources are now present in CHARM2. This represents an increase of a factor of 3.4 and 2.0, respectively, over the contents of the previous version of CHARM.

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Keywords

Catalogs, Occultations stars: Binaries: General, Stars: Fundamental parameters, Techniques: High angular resolution, Techniques: Interferometric