

Spiral Galaxy Distance Indicators Based On Near Infrared

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University of Groningen Spiral galaxy distance indicators ...

Dust-free colours and NIR absolute magnitudes greatly enhance the usefulness of the NIR CM relation as a distance indicator for moderately to highly inclined spiral galaxies in the field (inclinations between $\sim 80^\circ$ and 90°); by avoiding

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contamination by dust the scatter in the CM relation is significantly reduced, compared with similar galaxy samples published previously.

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We compare two methods of distance determination to spiral galaxies using optical/near-infrared (NIR) observations, the (I-K) versus M_K colour-absolute magnitude (CM) relation and the I- and K-band Tully-Fisher relation (TFR). Dust-free colours and NIR absolute magnitudes greatly enhance the usefulness of the NIR CM relation as a distance indicator for moderately to highly inclined spiral galaxies in the field (inclinations between ~80 deg and 90 deg) by avoiding contamination by dust the ...

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the NIR CM relation as a distance indicator for moderately to highly inclined spiral galaxies in the field. Alternatively, large galaxy surveys in the NIR facilitate the use of the NIR Tully-Fisher relation (TFR; Tully & Fisher 1977) as an accurate tool to obtain distances to spiral galaxies in clusters. In this paper we discuss the I and

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Spiral galaxies form a class of galaxy originally described by Edwin Hubble in his 1936 work The Realm of the Nebulae and, as such, form part of the Hubble sequence. Most spiral galaxies consist of a flat, rotating disk containing stars, gas and dust, and a central concentration of stars known as the bulge. These are often surrounded by a much fainter halo of stars, many of which reside in ...

Spiral galaxy - Wikipedia
ABSTRACT. Six of the principal galaxy distance indicators are discussed: Cepheid variables, the Tully-Fisher relation, the $D_n - \sigma$ relation, Surface Brightness Fluctuations, Brightest Cluster Galaxies, and Type Ia Supernovae. The role they play in peculiar velocity surveys and Hubble constant determination is emphasized.

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Measurement of Galaxy Distances

Cepheids in Spiral Galaxy NGC 4603. Individual stellar types are used as distance indicators within the Local Group and out to about 10 Mpc, but they cannot be used at the enormous distances of the most remote galaxies, for two reasons. First, variable stars like Cepheids or RR Lyraes are not luminous enough to be detected at such large distances. Second, the individual stars of a distant galaxy cannot be spatially resolved.

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