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Spiral galaxy distance indicators based on near-infrared photometry 3 2 THE NIR

COLOUR-MAGNITUDE RELATION The tightness of the CM relation for early-type galaxies (as rst established by Baum [1959] and de Vaucouleurs [1961]), makes it potentially useful as a distance indicator, as was rst suggested by Sandage (1972). In this paper we inves-

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 ~ 80° and 90°); by avoiding 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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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.

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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Abstract. We compare two methods of distance determination to spiral galaxies using optical/near-infrared (NIR) observations, the (I-K) versus MK colour-absolute magnitude relation and 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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Course Astronomy #38 The Milky Way and Spiral Galaxies **The Most Ancient Spiral Galaxy**

Cosmic Distance Ladder: Cepheid

Variables *Visiting Andromeda: The Closest Spiral Galaxy* **The Biggest Spiral Galaxy**

- **Sixty Symbols** M109—Barred Spiral

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2 Discovers Wall of Fire at Solar System's

Edge *How Earth Moves* *Spiral Galaxies -*

Sixty Symbols Turns Out, Galaxies Form

Spiral Arms In a Very Unusual Way *The*

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Newly Found Super Spiral Galaxies Spin

Too Fast to Exist *Scientists Pin Down*

Distance to Nearest Galaxy *NAS* *The Great*

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(Intro Astronomy module 12, lecture 2)

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