

Spiral Galaxy Distance Indicators Based On Near Infrared

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of distance determination to spiral galaxies using optical/near-infrared (NIR) observations, the (I-K) versus MK colour-absolute 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° and 90°); by avoiding contamination by dust the scatter in the CM relation is significantly reduced, compared with similar galaxy samples published previously.

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 (first established by Baum [1959] and de Vaucouleurs [1961]), makes it potentially useful as a distance indicator, as was first suggested by Sandage (1972). In this paper we investigate 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 K-band Tully-Fisher relation (TFR) as an accurate tool to obtain distances to spiral galaxies in clusters. In this paper we discuss the I and K-band Tully-Fisher relation (TFR) as an accurate tool to obtain distances to spiral galaxies in clusters.

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