

Barbá 2: A new supergiant-rich Galactic stellar cluster

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Abstract

We present a new supergiant-rich stellar cluster hidden by extinction and christen it as Barbá 2, in honor of its discoverer Rodolfo Barbá. The cluster is at a distance of $7.39^{+0.65}_{-0.55}$ kpc and contains several supergiants, of which we provide spectral classifications for one blue, one yellow, and five red ones. The cluster extinction indicates an above-average grain-size ($R_{5495} \sim 3.7$), its age has a minimum value of 10 Ma, and its core radius is 0.84 ± 0.19 pc.

Our contribution can be found at <https://zenodo.org/records/13887178> in zenodo.org