

Another brick in the bulge: On the nature of the globular cluster Palomar 6

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To decipher the history of the Galactic bulge is a tricky task because of the complex stellar populations that live there from other components of the Milky Way. In particular, the globular clusters are fundamental pieces to reconstruct that history since they retain the chemodynamical signatures of the early stages of the Galaxy. In this context, we have the globular cluster Palomar 6 (Pal6), which is in the direction of the Galactic bulge, a region strongly affected by extinction. From high-quality data of Pal6, we found that it has a similar chemical pattern observed for the genuine bulge globular clusters. Also, Pal6 seems to have a second population of stars making it a Type I globular cluster. The analysis confirms that Pal6 is confined in the inner region of the Galaxy. Moreover, we concluded that Pal6 was probably formed in situ. Therefore, we can say that Pal6 is a genuine Type I bulge globular cluster that has been there since the beginning of our Galaxy.

Type

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Author: SOUZA, Stefano (Universidade de São Paulo - IAG-USP)

Co-authors: Dr VALENTINI, Marica (Leibniz-Institut für Astrophysik Potsdam (AIP)); Dr BARBUY, Beatriz (Universidade de São Paulo, IAG-USP); Dr PÉREZ-VILLEGAS, Angeles (Instituto de Astronomía, Universidad Nacional Autónoma de México); Dr CHIAPPINI, Cristina (Leibniz-Institut für Astrophysik Potsdam (AIP)); Dr ORTOLANI, Sergio (Università di Padova, Dipartimento di Astronomia, Vicolo dell'Osservatorio 2); Dr NARDIELLO, Domenico (Aix Marseille Univ, CNRS, CNES, LAM); Dr DIAS, Bruno (Instituto de Alta Investigación, Universidad de Tarapacá); Dr ANDERS, Friedrich (Institut de Ciències del Cosmos, Universitat de Barcelona (IEEC-UB)); Dr BICA, Eduardo (Universidade Federal do Rio Grande do Sul, Departamento de Astronomia)

Presenter: SOUZA, Stefano (Universidade de São Paulo - IAG-USP)

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