The Formation Mechanism of the Crab Nebula

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Abstract: show a new explanation regard to the formation mechanism of the Crab Nebula

Main viewpoints and conclusions:

These images selecting from related articles, and many thanks to the authors.

The Crab Nebula (the catalogue designations M1, NGC 1952, Taurus A), which is a pulsar wind nebula in the constellation of Taurus.[1]

According to and integrating the related research results,[1][2][3][4][5] a conclusion could be obtained: the Crab Nebula was formed by the decay of a Neutron star (a black-hole; neutrons cluster), and the details of the formation process is:

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\text{a Neutron star (a black hole; neutrons cluster)} \rightarrow \text{a Pulsar (an unstable nuclei)} + \gamma (\nu) + + X (e^-) + P (H^+) + \alpha (He^+) + \text{other kind of Nucleuses or Atoms} = \text{the Crab Nebula}.\]

References


[2] Hitomi spacecraft to enable unprecedented views of the violent universe

[3] Astroparticle Physics Italian Style
http://physics.aps.org/articles/v8/96

https://www.sciencedaily.com/releases/2015/08/150806144657.htm

[5] Black-holes’ Innate Character and Feature
http://arxiv.org/abs/1608.0177

[6] Physicists measured something new in the radioactive decay of neutrons