

The Misplacement of Fusion Reactions in Stars

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August 2, 2015
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Abstract: The energies required for nuclear reactions far exceed the thermal energies hypothesized to exist in stellar interiors.

The thermal energy of 20 million degrees equates to around 3.5 keV, or kilo-electron volts.^[1] The energies required for fusion/nuclear transformations is many MeV or million-electron volts. This means the interior of stars do not possess the required energies for fusion reactions/nuclear transformations to take place, even if their interiors possess great temperatures. The actual location for nuclear transformations exists in radio galaxy jets and other high energy phenomena such as quasars and pulsars where the energies of accelerated particles are well above the required energies for nuclear transformations. Eddington, Atkinson and Houtermans took students on the wrong path of discovery concerning the location of nuclear transformations. The correction in observations and sound science are as follows.

Stars are electrochemical, thermochemical and are actively engaged in vast chemical exothermic combination reactions, they are not nuclear what so ever, as it is well known in alternative circles that the formation of a “planet” is the evolution of a star itself via the General Theory of Stellar Metamorphosis. The nuclear age came to be absent understanding where nuclear reactions were taking place in the universe, as the discoveries required to adequately place them were not made yet. The existence of radio galaxies was not known, nor the high energy particle jets which they exhibit creating all the matter necessary for star formation. What this will lead to is scientists thinking quasars, pulsars and other types of high energy phenomenon rely on strange matter and exotic theoretical ideas which have no basis in reality. What is more appropriate is to place stars in the arena of chemists and those who study rocks and minerals, and redirect the processes of nuclear transformations where the energies and velocities are high enough for them to occur. If this is not done, then there will be a great waste of resources chasing the misplaced ideas.

^[1] Gamow, George. 1964. A Star Called the Sun, page 127.