

Helium-3 generation from Deuterium plasma interaction on Hydrogenated Lattice: RED fusion*

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ABSTRACT

Helium-3 has been created in a nuclear fusion reaction by fusing Deuterium (${}_1\text{D}^2$) ions from Deuterium plasma with Hydrogen ions (${}_1\text{P}^1$) in a "Red" or crystal lattice, a method called Red Fusion. In this paper, we show the experimental results where Helium Three has been generated for the first time using a new method to confine Deuterium and Hydrogen inside the "Red" or Lattice of a Hydrogenated Crystal. The confinement inside the "Red" (Lattice) facilitates overcoming the Coulomb Barrier between the Deuterium and Hydrogen producing Helium three and Phonons in this fusion reaction. Deuterium Plasma, interacting with Hydrogen inside the crystal, we named "Red" Fusion, because is a new method of making fusion reactions, Specifically, Helium-3 is created by the following reaction: ${}_1\text{D}^2$ (Deuterium ion in a Deuterium plasma) + ${}_1\text{P}^1$ (Hydrogen ion in a crystal lattice) = ${}_2\text{He}^3$ + $\hbar\omega$ (phonon). The results of a long period of research in which Helium-3, has been created in a fusion reaction inside the Lattice or Red of the Crystal that contained Hydrogen after adequate interaction of Deuterium Plasma at appropriate high temperature and magnetic confinement of the Mirror/Cusp Plasma Machine at Polytechnic University of Puerto Rico, designed by the authors. We show Several Mass spectra and Visible light spectra of control measurements taken before and after the experiment, and the Mass and Visible Spectra where the presence of Helium-3 was detected. Additionally, electron energy measurements were taken during control measurements and during the experimental process as well. The experiment was repeated more than 200 times showing consistent generation of Helium-3. In this experiment no Gamma rays were detected. For this experiment, several Diagnostic instruments were used such as: Single and Double Langmuir Probes, Mass Spectrometers, Visible Light Spectrometers, NaI Detectors, Geiger Mueller, Hall Probes, Laser Thermometers, among others. Data from the control instruments was taken at all times before, and during the experiment. Thus, this experiment is an important new way to generate Helium-3.

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