

Neutrino-Driven Nuclear Reactions of Cold Fusion and Transmutation

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First stage: electron-neutrino ($e\nu$) couple formation in atom

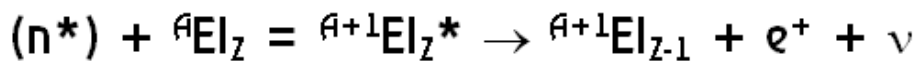
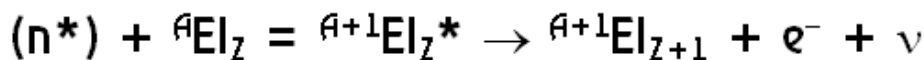
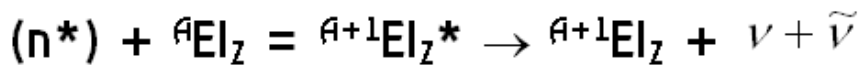
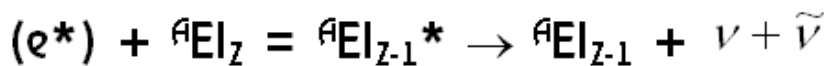
$$e^- + \nu = e\nu^- \equiv (e^*)$$

($e\nu$) couple formation in protium (deuterium) atom leads to drastic reduction of electron orbit (cloud) radius, so forming Barut-Vigier-type atom that represent itself, properly, a quasi-neutron (quasi-bineutron, correspondingly):

$${}^1\text{H}_1 + (e^*) = {}^1\text{H}_1^* \equiv (n^*)$$

$${}^2\text{H}_1 + (e^*) = {}^2\text{H}_1^* \equiv (2n^*)$$

As to other chemical elements nuclei, the following nuclear reactions proceeding with (e^*) and (n^*) participation are possible:



And so on...