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Cold SuperDense Baryonic Component of Nuclear Matter and Stars

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As a result of the elucidating the nature of cumulative processes the evidences have been obtained for the existence of a cold superdense component of nuclear matter - in ordinary nuclei there are nuclei of smaller mass (deuterons and tritons) are observed in the highly compressed state. The physical program to study the properties of the new state of nuclear matter in the planned experiments has been prepared. This state of the nuclear matter can drastically to change our point of view to possibly forms of the matter inside the massive stars.

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