

Transformations in magnetic fluids caused by activities of magnetic nanoparticles. / K. Kotetishvili, N. Kobalia, G. Chikhladze. / Nano Studies. – 2015. – # 12. – pp. 159-162. – eng.

The paper deals with transformations fixed in magnetic fluids due to definite activities of magnetic nanoparticles inside them. It is shown that in the case of absence of fixed flux the spin velocity and components m_x and m_y are space invariant, while at the fixed flux the spin velocity together with m_x and m_y varies with varying of the width of y . It is stated as well that in magnetic fluids the magnetization increases in the spiral form, because during its rotation it itself becomes responsible for movement of the fluid with the spin velocity different from 0, which itself changes the magnetization. Fig. 1, Ref. 3.

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