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New vortices in two flavor dense quark core of compact star

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A new “2SC”+”dd” phase containing 1S0 “ud” and 3P2 “dd” condensates is proposed [1]. Semi superfluid vortices carrying color magnetic fluxes together with fractionally quantized superfluid circulations appear in this phase [2].

1.Y.Fujimoto,Nucl. Phys.1005,2021,121757.

2.Y.Fujimoto,M.Nitta,Phys.Rev.D103,2021,114003.

Primary author: Prof. SHAHABASYAN, Karen (YSU)

Presenter: Prof. SHAHABASYAN, Karen (YSU)