



Contribution ID : 327

Type : **Poster**

Kink solutions in a family of polynomial models

Tuesday, 29 November 2022 17:10 (15)

We obtain kink solutions for a family of field-theoretic models with polynomial self-interaction of a real scalar field. These solutions have power-law asymptotics, and hence can be used for modelling of the so-called thick domain walls (among other applications). We also study various properties of the obtained solutions.

Primary author(s) : Mr. BLINOV, Petr (Moscow Institute of Physics and Technology); Ms. GANI, Tatiana (M. V. Lomonosov Moscow State University); Mr. MALNEV, Alexander (Moscow Institute of Physics and Technology); Dr. GANI, Vakhid (NRNU MEPhI); Prof. SHERSTYUKOV, Vladimir (Faculty of Mechanics and Mathematics, M. V. Lomonosov Moscow State University, Moscow Center for Fundamental and Applied Mathematics)

Presenter(s) : Mr. MALNEV, Alexander (Moscow Institute of Physics and Technology)

Session Classification : Poster Session

Track Classification : High energy physics: theory