

SPIN WAVES PROPAGATION IN CURVED ANTIFERROMAGNETIC NANOWIRES: RING AS A CASE OF STUDY

Here we theoretically investigate spin waves excitations in antiferromagnetic spin chain of ring shape. We show that such system's ground magnetization distribution is oriented along normal to the ring plane direction. The spin wave spectrum of ring forms four different asymmetric branches.

Primary authors: Mr KONONENKO, Denys (Taras Shevchenko National University of Kyiv); Dr PYLYPOVSKYI, Oleksandr (Taras Shevchenko National University of Kyiv); Prof. GAIDIDEI, Yuri (Bogolyubov Institute for Theoretical Physics); Prof. SHEKA, Denis (Taras Shevchenko National University of Kyiv)

Presenter: Mr KONONENKO, Denys (Taras Shevchenko National University of Kyiv)

Track Classification: Physics of Magnetism