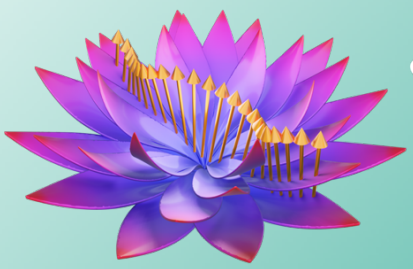


NIMFEIA

Deliverable D1.3

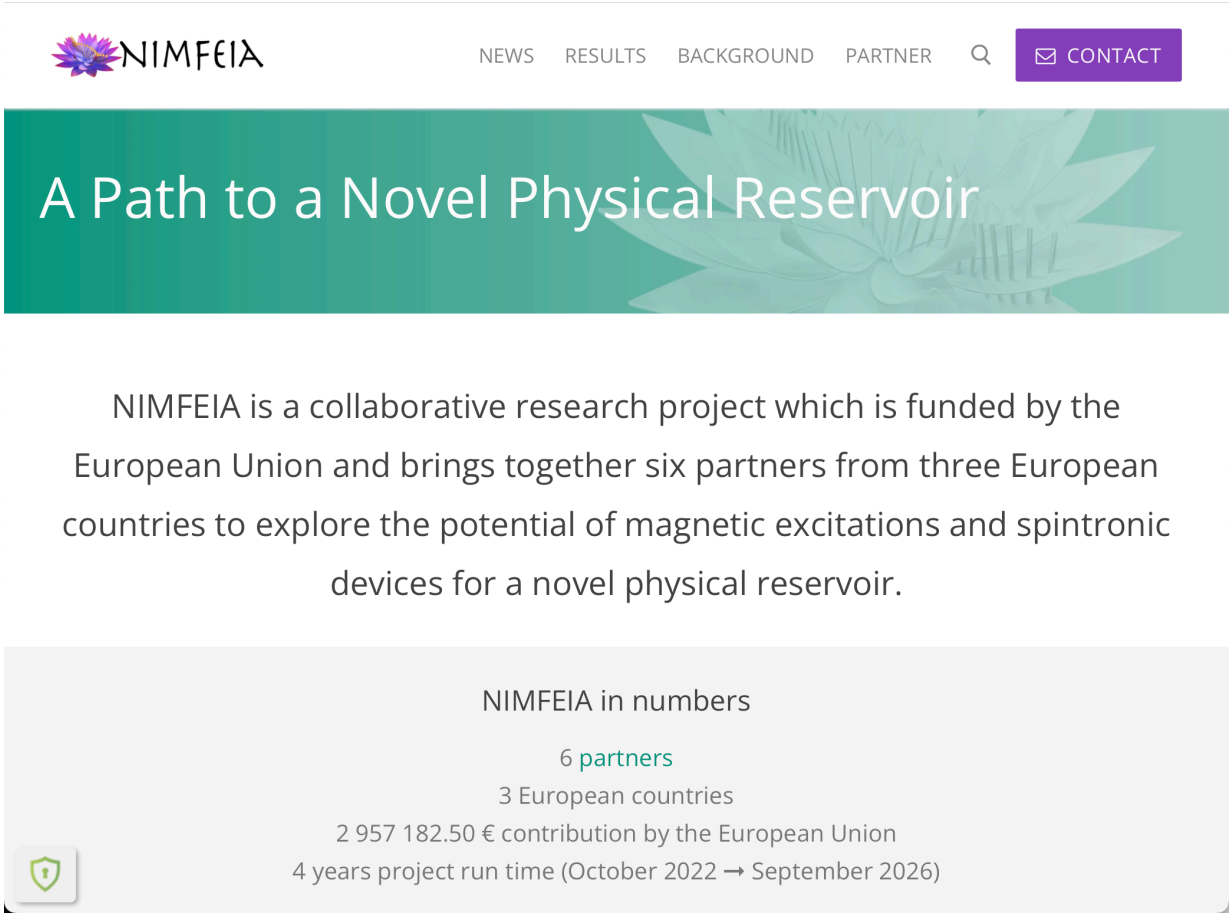
Project public launch

Project Number	101070290
Project name	Nonlinear Magnons for Reservoir Computing in Reciprocal Space
Project acronym	NIMFEIA
Work Package	WP1 Management, dissemination and exploitation
Type	Website
Dissemination level	Public
Lead Beneficiary	HZDR
Due date of delivery	Month 2 – November 2022

1. NIMFEIA website

The NIMFEIA website is available at www.nimfeia.eu.

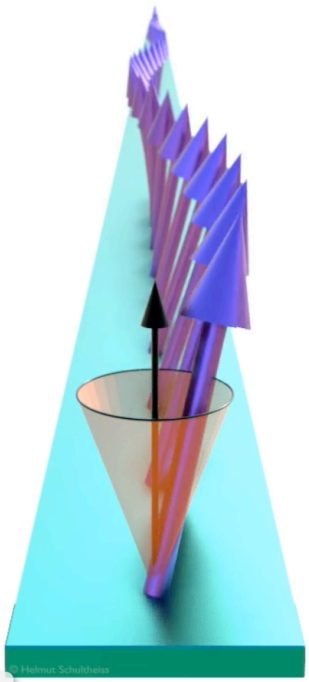
The website is designed in such a way that it allows easy navigation, highlighting the most important aspects of the NIMFEIA project.



This project has received funding from the EU Research and Innovation Programme Horizon Europe under grant agreement No 101070290.

To give the general public an understanding of the fundamental underlying physical principles of the NIMFEIA project, a designated Background section is devoted to easy-to-follow explanations. This section is still work in progress and is meant to grow continuously.

Background



What are magnons?

Magnons are collective excitations in magnetically ordered systems.

For the sake of simplicity, the movie illustrates a one-dimensional chain of magnetic moments in a ferromagnetic material. In equilibrium, all magnetic moments in such a ferromagnet point in the same direction.

If one of these magnetic moments is pushed out of equilibrium, like by some external magnetic field, it does not directly go back but rather precesses around the equilibrium direction. This precession of one magnetic moment then

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