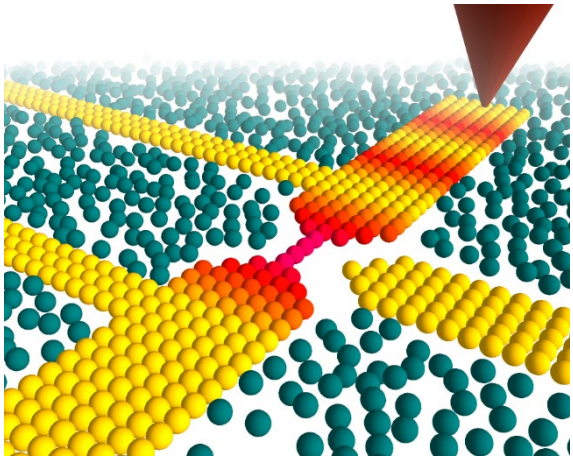
Post-Doc Fellowship
within project ERC "B3YOND"

Topic | **Nanostructured Quantum Materials**



The aim of the program is to manipulate and study the electronic properties in quantum materials, such as transition metal oxide thin films, by controlling at the nanoscale their structural properties via phase nanoengineering.

Within the research program, the postdoc will combine advanced direct nanofabrication methodologies such as thermal scanning probe lithography, and nanoscale electronic transport characterization, with the final goal to develop monolithic nanoelectronics based on nanostructured quantum materials.

Workplace | Dipartimento di Fisica & PoliFab, Politecnico di Milano, Via Giuseppe Colombo 81, 20133 Milano.

Salary | 2088 €/month net salary. Duration 24 months.

To apply | For more info, contact below. To apply QR code or https://shorturl.at/aouEN. Deadline 19-01-24.

Contacts

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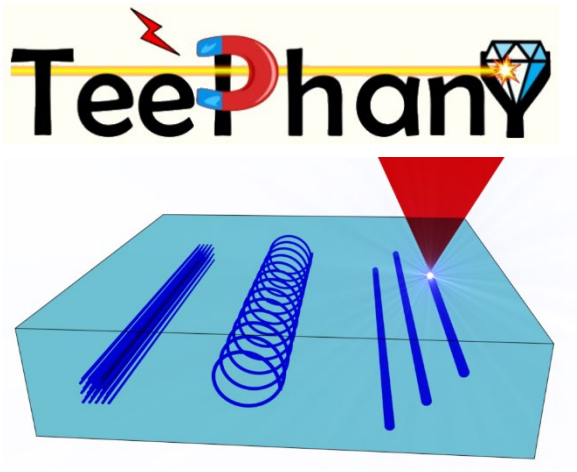
PhyND lab website https://phynd.polimi.it

Post-Doc Fellowship
within project **PRIN 2022 "TEEPHANY"**

Topic | **Three-dimensional nanomagnetism and magnonics**



The project aims to demonstrate a new paradigm for processing magnetic crystals such as YIG, enabling nanoscale resolution, three-dimensional (3D) capabilities and greyscale tunability in the definition of the magnetic properties of the substrates. In order to reach this goal, two powerful and complementary direct writing techniques will be exploited: ultrafast laser processing and thermally-assisted scanning probe lithography. The activity will be carried out in collaboration with CNR and INRIM, and the PoliMi unit will focus primarily on the nanofabrication via thermally scanning probe lithography and characterization via scanning probe microscopy.

Workplace | Dipartimento di Fisica & PoliFab, Politecnico di Milano, Via Giuseppe Colombo 81, 20133 Milano.

Salary | 1965 €/month net salary. Duration 16 months.

To apply | For more info, contact below. To apply QR code or https://shorturl.at/HLRTY. Deadline 19-01-24.

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