



# UNIVERSITÀ DI PAVIA

## Dipartimento di Fisica

### Post-doc Position in Photonics

Photonic technologies require the development of efficient nonlinear integrated components for the generation and manipulation of light. Nonlinear phenomena are among those that can benefit the most from integration, for their efficiency can be boosted by the large field enhancement associated with spatial and temporal confinement of light at the micro scale. At the University of Pavia, we study the physics of classical and quantum nonlinear effects in resonant and non-resonant integrated structures. This activity is in collaboration with several experimental groups as well as companies operating in the field of optoelectronics and photon-based quantum technologies.

The successful candidate will work in our group at the **Department of Physics of the University of Pavia, Italy**. This research activity will be mainly in the field of nonlinear integrated photonics, with focus on the development of integrated devices for the enhancement and the control of nonlinear parametric interactions.

Candidates should hold a Ph.D. in physics or engineering at the date of employment, **May 1<sup>st</sup>, 2021**, preferably with experience in analytical and/or numerical modelling of light propagation. Prior knowledge of nonlinear optics and quantum optics is welcome but not necessary.

The appointment is initially for one year with the possibility of renewal for one more year, provided a satisfactory performance review. Salary is competitive.

Application deadline: **March 15<sup>th</sup>, 2021**

*For more information about how to apply, please contact **Marco Liscidini**  
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