"Marie Curie" PhD Projects

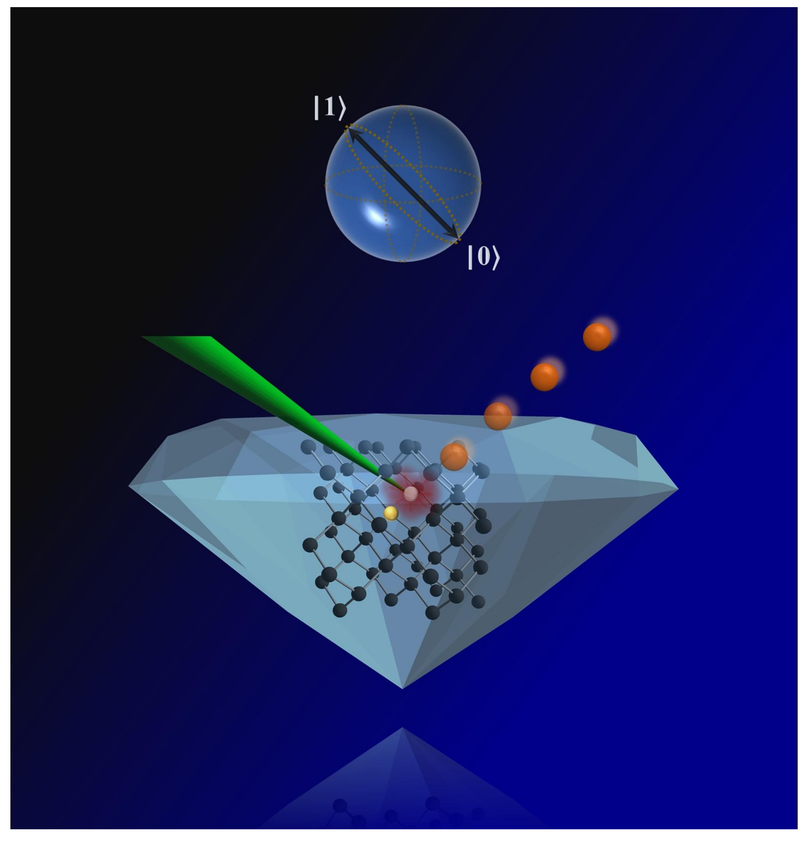
Quantum Technologies enabled by Laser and Ion Implantation Fabrication (LasIonDef)

13 Early Stage Researchers (ESRs) will be trained in the LasIonDef Innovative Training Network (ITN) European Project on innovative and interdisciplinary approaches such as ion implantation and femtosecond laser writing to fabricate quantum photonic integrated structures, colour center quantum emitters and microfluidics in materials such as diamond, gallium nitride, and hexagonal boron nitride.

2 PhD positions at the University of Torino

- Development of advanced ion-beam-based techniques for the creation of innovative devices in artificial diamond, with applications in bio-sensing and microfluidics (tutor: F. Picollo)

- Development and application of ion irradiation techniques for the engineering of new classes of quantum light emitters in silicon, diamond and gallium nitride (tutor: J. Forneris)



Reference links:

Solid State Physics Group
Diamond Research

Solid State Physics Group

University of Torino
Physics Department

University of Torino

Positions short description

- Start date: March 2021
- Application due: 7th February 2021
- PhD in Physics at the University of Torino
- Supervised by Profs. Federico Picollo and Jacopo Forneris, with the co-supervision of Profs. Paolo Olivero and Ettore Vittone
- 3-year PhD program, ~**4'000 €** / month gross salary (including allowances)
- Research visits to academic partners and industrial across the consortium
- Mobility rule: researchers must not have resided or carried out their main activity in the country of the recruiting beneficiary for more than 12 months in the 3 years immediately before the recruitment date
- Applicants must be in the first four years of their research careers and not have been awarded a doctoral degree yet
- For further information: paolo.olivero@unito.it

the LasIonDef consortium

www.lasiondef.eu