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[PABLO BURSET ATIENZA](#) PhD - Talento-CM

Fellow [Madrid Quantum Transport](#)

Work Module 5, 5th floor - 505

Biographical Information

2012. PhD Condensed Matter Physics, Autonomous University of Madrid, Spain.

2012-2015. Postdoctoral researcher in the group of Björn Trauzettel, University of Würzburg, Germany.

2015-2016. Japan Society for the Promotion of Science Research Fellow in the group of Yukio Tanaka, University of Nagoya, Japan.

2017-2020. Marie Skłodowska-Curie Research Fellow in the group of Christian Flindt, Aalto university, Finland.

2020. "Atracción de Talento" research Fellow and Junior Group Leader, Autonomous University of Madrid, Spain.

Honors and Awards

"Atracción de Talento, mod. 1" Programme 2019, Grant no. 2019-T1/IND-14088. 2020.

Marie Skłodowska-Curie Action Individual Fellowship 2016, Grant no. 743884. 2017.

Japan Society for the Promotion of Science Postdoctoral Fellowship (short-term) for overseas researchers, Grant no. PE15021. 2015.

Best thesis in Science of Autonomous University of Madrid. 2012.

Research Interests

Electron transport in mesoscopic systems.

Mesoscopic superconductivity.

Topological insulators and superconductors.

Graphene and carbon nanotubes.

Magnetic and superconducting hybrid nanostructures.

Electronic entanglement generation and detection in mesoscopic systems.

Relevant/Recent Publications

1. B. Lu, P. Burset, Y. Tanaka. *Spin-polarized multiple Andreev reflections in spin-split superconductors*. Phys. Rev. B **101**, 020502(R) (2020). [Editor's suggestion](#). [[URL](#)].
2. R. Sánchez, P. Burset, A. Levy Yeyati. *Cooling by Cooper pair splitting*. Phys. Rev. B **98**, 241414(R) (2018). [Editor's suggestion](#). [[URL](#)].
3. D. Breunig, P. Burset, B. Trauzettel. *Creation of spin triplet Cooper pairs in the absence of magnetic ordering*. Phys. Rev. Lett. **120**, 037701 (2018). [[URL](#)].
4. B. Braunecker, P. Burset, A. Levy Yeyati. *Entanglement Detection from Conductance Measurements in Carbon Nanotube Cooper Pair Splitters*. Phys. Rev. Lett. **111**, 136806, (2013). [[URL](#)].
5. P. Burset, "Superconductivity in graphene and carbon nanotubes: Proximity effect and nonlocal transport". Springer Theses series. ISBN: 978-3-319-01109-7 (Print), 978-3-319-01110-3 (Online). [[URL](#)]

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