

Responsabile scientifico italiano

Titolo **Dr.**

Cognome **CARDANI**

Nome **LAURA**

Qualifica **Ricercatore III livello (Ric EPR)**

C.V.

EDUCATION 2014 PhD, Physics Department - Sapienza, University of Rome, Italy Supervisor: Fernando Ferroni (Thesis Title: "ZnSe and ZnMoO₄ scintillating bolometers to search for double beta decay") 2010 Master degree, Physics Department - University of Milano-Bicocca, Italy. 110 cum laude. • **POSITIONS** 2017 – today Staff Researcher, Istituto Nazionale di Fisica Nucleare (INFN), Rome Division, Italy 2014 – 2017 Visiting Postdoctoral Research Associate (Dicke Fellowship), Physics Department - Princeton University, Princeton, New Jersey, US 2016 – 2017 Fixed Term Researcher, Istituto Nazionale di Fisica Nucleare (INFN), Rome Division, Italy 2014 – 2016 Postdoctoral Research Associate, Sapienza, University of Rome, Italy **Responsibilities:** 2022 – today Co-PI and INFN national responsible of the COLD project (funded by MUR under PRIN) to enhance the sensitivity of cryogenic devices. 2020 – today Co-PI and Co-Leader of the thrust "quantum devices" for the SQMS centre, to develop a new superconducting quantum processor (about 150 collaborators, mainly from US). 2021 – today Italian Manager, and L2 Manager of the "Detector Design" thrust for CUPID, to search for double beta decay with background free detectors (about 150 collaborators, mainly IT, FR and US). 2018 – today Local Coordinator of the INFN Rome division for CUPID (about 15 members). 2019 – 2021 Co-convenor of the Detector Group for the CUPID experiment. 2018 – 2021 Principal Investigator of DEMETRA, to suppress radioactivity in superconducting circuits (about 20 collaborators mainly from IT and GE). 2015 – 2019 Analysis Coordinator of CUPID-0, the pilot experiment for CUPID (about 50 researchers mainly IT and FR). 2014 – 2016 Coordinator of the cryogenic laboratory of CALDER, to develop detectors based on microwave resonators. Supervisor of 2 PhD and 10 master students. 179 published papers, 3237 citations (h-index:35, scopus).