



Final Report of the Joint Bilateral Agreement CNR/Royal Society of London (UK)

Biennial Programme 2020-2021

Considering the General Agreement signed on September 25, 2018, the joint call for the bilateral project program launched on April 10, 2019 and a recent exchange of emails between the Royal Society of London (UK) and CNR, both Parties have jointly decided to fund, within the framework of the future joint program, up to 5 projects granting 6.000 Euros (12.000 £) per year for 2 years.

At the deadline fixed by the call, 20 proposals have been submitted to both Parties.

After the evaluation procedures performed independently by both Parties, the assessed projects obtaining the highest scores, have been taken into account.

Despite the large number of good proposals received, the Parties agreed to finance the following proposals included in a final ranking list:

Joint Research Project .	Italian Institution	UK Institution
Technical developments for the measurement of possible ordered proton structures in ice XVII and ice Ic.	Dr LORENZO ULIVI "Nello Carrara" Institute of applied physics (CNR-IFAC) Via Madonna del Piano, 10 50019 Sesto Fiorentino (FI)	Dr ANDREW DOMINIC FORTES Science and Technology Facilities Council, Rutherford Appleton Laboratory, UK



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Accelerating the development of ammonia-salt systems for sorption heat pumps	Dr ANGELO FRENI Institute of chemistry of organometallic compounds (CNR-IGCOM) Area della Ricerca CNR di Pisa, Via Moruzzi 1, 56124 Pisa	Prof. ROBERT CRITOPH University of Warwick, School of Engineering, UK
Label-free multi-scale X-ray imaging for the study of cell differentiation and colonization of scaffolds in regenerative medicine	Dr CINZIA GIANNINI Institute of Crystallography (CNR-IC) Via Giovanni Amendola, 122/O - 70126 Bari (BA)	Dr MARCO ENDRIZZI University College London, Department of Medical Physics and Biomedical Engineering, UK
Testing fundamental theories with ultracold atoms	Dr ANDREA TROMBETTONI Institute of materials (CNR-IOM) c/o Area Science Park Basovizza S.S. 14 - Km. 163,5 - 34149 Trieste (TS)	Prof. MAURO PATERNOSTRO Queen's University Belfast, School of Mathematics and Physics, UK
Optical imaging of biological samples using compressed sensing and deep learning	Dr ANDREA FARINA Institute for photonics and nanotechnologies (CNR-IFN) c/o Dipartimento di Fisica del Politecnico di Milano Piazza Leonardo da Vinci, 32 - 20133 Milano (MI)	Prof. SIMON ARRIDGE University College London, Department of Computer Science, UK

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