

The rescheduled four-month programme 'Fractional Differential Equations' (FDE2) has come to fulfil its main aim by hosting a major international event on the highly topical subject of deterministic or stochastic space/time non-local equations, related Markov or non-Markovian jump random processes, and a variety of applications in control theory, physics and other sciences. The programme made a first step in the direction of creating a platform of interactions between pure and applied scientists involved with these fields, with participants and contributors across six continents, and a geographical span from New Zealand to Chile. The specific areas have been represented by frontline researchers, all generously making available their expertise, resulting in a high-intensity exchange of ideas and in identifying new directions of research.

Although the adverse covid circumstances continued to affect the normal proceeds, the programme has been well attended both in person and virtually, including a welcome proportion of female scientists and young researchers. The programme accommodated three five-day specialised workshops, which included special colloquium-type lectures attended by audiences beyond the regular participants. Also, FDE2 hosted further events like some 35 seminars, a mini-course, and the highly populated Rothschild and Kirk Lectures delivered by prestigious scientists. We also engaged in a partnership with the parallel programmes 'Frontiers in Kinetic Theory' and 'Mathematical Aspects of Turbulence' by running a joint seminar (JINX), featuring especially early career scientists and postdocs.

FDE2 has been the first event on these topics of this scale both in the UK and globally, and it can be hoped that it marked only the beginning of activities focussing on the emerging interdisciplinary field of fractional calculus, integro-differential equations, non-local operators, random processes with jump discontinuities, and their multiple applications. There will undoubtedly be a number of scientific articles and further publications directly resulting from or inspired by the programme, as well as new collaborations and initiatives. The organisers intend to build on the momentum and experience accumulated during the programme in designing follow-up events in the future.