Report sur le Projet FINTOINF

Project[1] Number: [10102398]

Project Acronym: [FINTOINF]

FINAL Technical Report

Part B

Period covered by the report: from [01/04/2021] to [insert 31/03/2023]

Periodic report: *FINAL*

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[1] The term 'project' used in this template equates to an 'action' in certain other Horizon 2020 documentation

Reference (e.g. work package)	Activities
I) Publications published or to appear II) Publications submitted III) Conferences and events organised All the results are transversal to the work packages. We have achieved the scientific production and outreach activities as proposed. The objectives of (MD2) have been largely achieved, opening new directions of research. The objectives of	(1) Mirna Dzamonja, Angeliki Koutsoukou-Argyraki and Lawrence C. Paulson FRS, Formalising Ordinal Partition Relations Using Isabelle/HOL, Experimental Mathematics vol. 31 (2022) No.2 pg. 383-400 (2) Mirna Dzamonja and Ivan Tomasic, Graphons arising from graphs definable over finite fields, Colloquium Mathematicum}, vol. 169 (2022) No. 2 pg. 269-306. (3) David Buhagiar and Mirna Dzamonja, On middle box products and paracompact cardinals, to appear in the Annals of Pure and Applied Logic, preprint at http://arxiv.org/abs/2211.12936, HAL: hal- 03913664, v1 (4) Dana Bartosova, Mirna Dzamonja, Rehana Patel and

	Lynn Scow, Big Ramsey degrees in ultraproducts of finite structures, to appear in the Annals of Pure and Applied Logic, preprint at http://arxiv.org/abs/2211.12936, HAL: hal- 03913664, v1 (5) Mirna Dzamonja, Multiverse and the Society, a chapter in ``Handbook of the History and Philosophy of Mathematical Practice'' (Bharath Sriraman, ed.).HAL: hal-03019882v2 (a philosophical article in connection with the research themes of FINTOINF) II
(MD1), which was a long term project, have been started and some important ideas obtained.	1. (1) Krystian Jobczyk and Mirna Dzamonja, The Lindstrom Characterizability of Abstract Logic Systems for Analytic Structures Based on Measures.

	2. (2) Uri Abraham, Robert Bonnet, Mirna Dzamonja and Maurice Pouzet, On the ABK Conjecture, alpha-well Quasi Orders and Dress-Schiffels product, preprint arxiv 2303.11451. III (1) Co-organiser Séminaire Philosophie et Mathématiques, ENS Paris, 2023 - (2) Co-organiser Research School "Discrete Mathematics and Logic", CIRM, Marseille, January 2023 (3) Co-organiser DALFI, a workshop within FLOC 22, Haifa, Israel, July 2022, moved to Paris, November 2022 (4) Organiser ``Mathematical Independence and its Limits'', Seminar MAMUPHI, Paris, February 2022

In addition to the table of results, it can be said that the project facilitated the exchanges of ideas between theoretical computer sciences and mathematics and has opened many new avenues for research. It has also held to all the promises of the engagement of the PI in respect of the promotion of diversity in science and interdisciplinarity. The results have been widely disseminated and the PI participated in numerous scientific events where the results were presented.