

Program of the 13th edition of
Functional Equations in LIMoges
FELIM 2022

March 28-30, 2022

Organised by

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Sponsored by

XLIM / MATHIS, GDR EFI, Fédération MARGAUX



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Fédération Mathématique
de Recherche
en Région Nouvelle-Aquitaine

FELIM 2022, Functional Equations in LIMoges

Monday, March 28 (Salle de Conférences)

10:00 - 10:30	Registration - Welcome
10:45 - 11:45	Juan José Morales Ruiz: <i>Differential Galois theory and quantum physics</i>
12:00 - 14:00	Lunch break
14:00 - 14:40	Thierry Combot: <i>Computing rational first integrals on surfaces</i>
14:45 - 15:25	François Ollivier: <i>Singularities in differential algebra and diffiety theory</i>
15:30 - 16:00	Tea break, Discussions
16:00 - 16:40	Hadrien Notarantonio: <i>Algorithms for solving fixed point equations of order 1</i>
16:45 - 17:25	Raphaël Pagès: <i>Computing characteristic polynomials of p-curvatures in average polynomial time</i>

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Tuesday, March 29 (Salle XR203)

9:30 - 10:30	Lucia Di Vizio: <i>Differential transcendence for the Bell numbers and their relatives</i>
10:30 - 11:00	Coffee break, Discussions
11:00 - 11:40	Marina Poulet: <i>An algorithm to recognize regular singularities of Mahler systems</i>
12:00 - 14:00	Lunch break
14:00 - 14:40	Thomas Dreyfus: <i>Computing the Galois group of order three difference equations</i>
14:45 - 15:25	Mercedes Haiech: <i>Deformations of solutions of differential equations</i>
15:30 - 16:00	Tea break, Discussions
16:00 - 16:40	Sergey Yurkevich: <i>Conjecturing and proving that the generating function of the Yang-Zagier numbers is algebraic</i>
16:45 - 17:25	François Ollivier: <i>Extending flat motion planning to non-flat systems. Experiments on aircraft models using Maple</i>
20:00 -	Conference Dinner

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Wednesday, March 30 (Salle XR203)

9:30 - 10:30	Gwladys Fernandes: <i>Hypertranscendence of solutions of linear difference equations</i>
10:30 - 11:00	Coffee break, Discussions
11:00 - 11:40	Alexandre Goyer: <i>Symbolic-numeric factorization of differential operators</i>
12:00 - 14:00	<i>Lunch break</i>
