

Program of the 14th edition of  
**Functional Equations in LIMoges**  
**FELIM 2024**

March 25-27, 2024

Salle de Conférences du bâtiment XLIM

Organised by

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Sponsored by

XLIM / MATHIS, Labex SigmaLim, GDR EFI\*, Fédération MARGAUX



**MARGAUX**  
Fédération Mathématique  
de Recherche  
en Région Nouvelle-Aquitaine

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\*axe transverse au sein de trois nouveaux réseaux thématiques de l'INSMI : "Algèbre", "Géométrie Algébrique et Singularités" et "Théorie des Nombres"

# FELIM 2024, Functional Equations in LIMoges

Monday, March 25

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10:30 - 11:00	Registration - Coffee - Welcome
11:00 - 12:00	<b>Loïc Teyssier:</b> <i>Numeric-symbolic computation of the separatrix graph of a holomorphic polynomial differential equation</i>
12:00 - 15:00	Lunch break
15:00 - 15:40	<b>Sonia L. Rueda:</b> <i>Computing spectral curves for third order ODOs</i>
15:45 - 16:25	<b>Camille Pinto:</b> <i>Effective characterization of evaluation ideals of the ring of integro-differential operators</i>
16:30 - 17:00	Tea break, Discussions
17:00 - 17:40	<b>Thomas Dreyfus:</b> <i>Representability of G-functions as rational functions in hypergeometric series</i>
17:45 - 18:25	<b>Lucas Legrand:</b> <i>Gröbner bases over polytopal affinoid algebras</i>

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# FELIM 2024, Functional Equations in LIMoges

Tuesday, March 26

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9:30 - 10:30	<b>Carlos Arreche:</b> <i>Galois groups of functional equations: theory, algorithms, and applications</i>
10:30 - 11:00	Coffee break, Discussions
11:00 - 11:40	<b>Adya Musson-Leymarie:</b> <i>Confluence for topological rewriting systems</i>
12:00 - 15:00	Lunch break
15:00 - 16:00	<b>Thierry Combet:</b> <i>Symbolic integration on differential foliations</i>
16:00 - 16:30	Tea break, Discussions
16:30 - 17:10	<b>Florian Fürnsinn:</b> <i>Algebraicity of Hypergeometric Functions with Arbitrary Parameters</i>
17:15 - 17:55	<b>Daniel Augot:</b> <i>A differential equation for decoding derivative codes a.k.a Hermite interpolation with outliers</i>
20:30 -	Conference Dinner

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# FELIM 2024, Functional Equations in LIMoges

Wednesday, March 27

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9:30 - 10:30	<b>Clemens Raab:</b> <i>Reduction approach for polynomial solutions of Risch differential equations</i> (visio conference)
10:30 - 11:00	Coffee break, Discussions
11:00 - 11:40	<b>Sergei Abramov:</b> <i>On linear recurrent equations having infinite sequences in the role of coefficients</i>
12:00 - 14:00	Lunch break

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