

# "School on Formal Mathematics"

#### May 13 - 17, 2024

### organized by Michael Kohlhase, Jacques Carette, Valeria de Paiva, Josef Urban

#### Time measurement: CEST

### • Monday, May 13

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08:30 - 08:55	Arrival and Registration
08:55 - 09:00	Introduction by Michael Kohlhase and Welcome by the HIM Team
09:00 - 09:25	Yannick Forster System Introductions I - Coq
09:25 - 09:50	Sam Owre System Introductions I - PVS
09:50 - 10:15	<b>Freek Wiedijk</b> System Introductions I - HOL
10:15 - 10:40	Mario Carneiro, Floris van Doorn System Introductions I - Lean
10:40 - 11:00	Coffee break
11:00 - 11:25	Manuel Eberl System Introductions II - Isabelle
11:25 - 11:50	Michael Kohlhase System Introductions II - sTeX/ALeA
11:50 - 12:15	<b>Peter Koepke</b> System Introductions II - Naproche
12:15 - 12:40	Andrej Bauer, Guillaume Allais System Introductions II - Agda/Idris
12:40 - 14:15	Lunch break
14:15 - 16:00	Formalization Lab I getting your hands dirty in groups
16:00 - 16:30	Coffee break

16:30 - 18:00	Formalization Lab II getting your hands dirty in groups
afterwards	Get-Together Pretzels and Drinks in the Garden of the Institute - weather permitting

### • Tuesday, May 14

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09:00 - 09:10	Planning
09:10 - 09:50	Josef Urban Theorem Proving and AI
09:50 - 10:30	Michael Kohlhase ALeA - Flexiformal Education
10:30 - 11:10	Group Photo and Coffee break
11:10 - 11:50	<b>Andrej Bauer</b> Constructive Mathematics - How to not believe in the Law of Excluded Middle
12:00 - 14:00	Lunch break
14:00 - 16:00	<b>Practical Formalization</b> getting your hands dirty in groups
16:00 - 16:30	Coffee break
16:30 - 18:00	<b>Practial Formalization</b> getting your hands dirty in groups

# • Wednesday, May 15

09:00 - 09:10	Planning
09:10 - 09:50	<b>Freek Wiedijk</b> More on HOL Light
09:50 - 10:30	Sam Owre Modularity in PVS
10:30 - 11:10	Coffee break
11:10 - 11:50	Mario Carneiro TBD
12:00 - 14:00	Lunch break
14:00 - 16:00	<b>Practical Formalization</b> getting your hands dirty in groups
16:00 - 16:30	Coffee break
16:30 - 18:00	<b>Practial Formalization</b> getting your hands dirty in groups

## • Thursday, May 16

09:00 - 09:10	Planning
09:10 - 09:50	<b>Freek Wiedijk</b> Even more on HOL Light
09:50 - 10:30	<b>Guillaume Allais</b> Syntaxes for Binding and their Semantics
10:30 - 11:10	Coffee break
11:10 - 11:50	Mario Carneiro and Andrej Bauer Universes in Set/Type Theory
12:00 - 14:00	Lunch break
14:00 - 16:00	<b>Practical Formalization</b> getting your hands dirty in groups
16:00 - 16:30	Coffee break
16:30 - 18:00	<b>Practial Formalization</b> getting your hands dirty in groups

# • Friday, May 17

09:00 - 09:30	<b>Peter Koepke</b> FOL from a Naproche perspective
10:00 - 11:00	LLM Talk at Computer Science
11:10 - 11:50	<b>Steve Awodey</b> What is HOTT?
12:00 - 14:00	Lunch break
14:00 - 16:00	<b>Practical Formalization</b> getting your hands dirty in groups
16:00 - 16:30	Coffee break
16:30 - 18:00	<b>Practial Formalization</b> getting your hands dirty in groups

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