Lev-Arcady **Sellem**

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Current position

PhD in Mathematics *2020 - today*

Mines ParisTech, Inria *Paris, France*

Mathematical methods for simulation, estimation and control of open quantum systems.

Advisors : Claude Le Bris, Pierre Rouchon.

Previous communications

Arxiv preprint *2022*

L-A. Sellem et al., Exponential convergence of a dissipative quantum system towards finite-energy grid states of an oscillator Arxiv

Arxiv preprint *2022*

C. Berdou et al., One hundred second bit-flip time in a two-photon dissipative oscillator Arxiv

Oral communication at the CANUM Congress *2022*

A Sturm-Liouville problem arising from the study of finite energy GKP qubits Abstract *Evian-les-Bains, France*

Oral communication at the Q-Traj Fall school *2021*

Model order reduction methods for Lindblad type equations Abstract *Toulouse, France*

Poster at the SMAI Congress *2021*

Model order reduction methods for Lindblad type equations Abstract Poster *La Grande Motte, France*

Education

Master's degree in mathematics applied to modelisation - 2nd year *2019 - 2020*

Sorbonne Université *Paris, France*

FeSup master's degree in mathematics - 2nd year *2018 - 2019*

École Normale Supérieure Paris-Saclay *Cachan, France*

Preparation to sit the national exam to become a teacher in mathematics - passed, rank 37.

Hadamard master's degree in mathematics - 1st year *2017 - 2018*

École Normale Supérieure Paris-Saclay *Cachan, France*

Third year of bachelor in Mathematics and Computer science *2016 - 2017*

École Normale Supérieure Paris-Saclay *Cachan, France*

Internships

Master's degree internship *April - August 2020*

INRIA *Paris, France*

Mathematical methods for simulation, estimation and control of open quantum systems.

Mentors : Pierre Rouchon, Claude Le Bris.

Master's degree internship *April - July 2018*

I2M *Marseille, France*

Minimal null-control time for parabolic PDE.

Mentors : Morgan Morancey, Assia Benabdallah.

Bachelor internship *June - July 2017*

LIRIS *Lyon, France*

Generation and edition of subdivision landscapes.

Mentor : Éric Guérin