



PHILIPPE THIEULLEN

From France to Sweden



Project: **Ergodic optimization of matrix cocycles**

Research topic: Mathematics, Ergodic theory, Matrix cocycles

Swedish Institution: **Ångströmlaboratoriet, Department of Mathematics,
Uppsala universitet**

French Institution: **Université de Bordeaux, Institut de Mathématiques de Bordeaux**

Dates of mobility: **05/11/2023 to 11/11/2023**

Program: **2023 SFVE-A**



PRESENTATION

[Philippe Thieullen](#) have been working on dynamical system and ergodic theory for 30 years. He was Maître de Conférence at Orsay from 1991 to 2003 and then professor at [Université de Bordeaux](#) from 2003. He met Reza Mohammadpour in 2021 at Bordeaux when he was a post-doctoral student at the laboratory of Computer Science. Then, Reza obtained a post-doctoral position at [the department of Mathematics at Ångströmlaboratoriet](#). At the time he was at Bordeaux and they started working at a problem of ergodic optimization for products of matrices. They met by zoom several time until Philippe's travel to Uppsala. They are now very close to finish an article (of 43 pages so far). A face-to-face collaboration is certainly necessary at the end of an article. Besides, his collaborator is applying for a permanent job at [Ångströmlaboratoriet](#), and such a joint work is important for his career. |

ACTIVITIES IN SWEDEN

Philippe Thieullen stayed at [the Mathematics department at Ångströmlaboratoriet](#) for one week. An active and renowned group in dynamical system is developing there. He met different people especially at there usual seminar and during lunch time. He met the director of the department and discussed the possibility of exchanging students. His first priority was to finish an article with Reza Mohammadpour. As explained before he may obtain a permanent position at that department and we intend to continue our collaboration on other research program. It was my first time in Sweden and such a grant as SFVE-A is certainly very important to start creating contacts. He hope that his contribution will help his co-authors to get a position at [Ångströmlaboratoriet](#). |