

---

# **Mathematical modelling of strategies to control mosquitoes population**

Nicolas Vauchelet<sup>\*1</sup>

<sup>1</sup>Laboratoire Analyse, Géométrie et Applications (LAGA) – Université Paris 8 Vincennes-Saint-Denis : UMR7539, Centre National de la Recherche Scientifique : UMR7539, Université Sorbonne Paris nord : UMR7539 – Institut Galilée, 99 avenue Jean-Baptiste Clément, F-93430, Villetteaneuse, France, France

## **Résumé**

In the absence of efficient vaccine, the best way to control diseases transmitted by mosquitoes (like dengue, chikungunya, zika) is to act directly on the population of mosquitoes. In this presentation, we will consider reaction-diffusion systems to model the dynamics of a population of mosquitoes and propose some strategies to control them.

---

<sup>\*</sup>Intervenant