ID de Contribution: **10** Type: **Non spécifié**

Small-time global approximate controllability of bilinear wave equations

mardi 27 juin 2023 15:00 (1 heure)

In this talk we will consider a multi-input bilinear control problem for the wave equation on a torus of arbitrary dimension. We will see that the system is globally approximately controllable in arbitrarily small times, from any initial state with a finite number of active modes. We will also discuss the control strategy, which is explicit, and based on a small-time limit of conjugated dynamics to move along non-directly accessible directions (a.k.a. Lie brackets of the generators).

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