



Contribution ID: 69

Type: **Oral presentation (by invitation only)**

## **Modelling process for vibrations estimations**

*Thursday 2 June 2022 12:00 (15 minutes)*

This presentation is about the modelling process for vibrations estimations used at LAPP (Annecy's particle physics laboratory) for the FCC project. The main goal of this work is to be able to predict the magnets displacements knowing only the ground displacements. The presentation explains the connection between mechanical calculations and optics studies. It also describes the different steps of the process: modal analysis, extraction of the state space matrices, calculation of the displacement etc...

**Author:** GRABON, Stanislas (Centre National de la Recherche Scientifique (FR))

**Presenter:** GRABON, Stanislas (Centre National de la Recherche Scientifique (FR))

**Session Classification:** FCC-ee accelerators

**Track Classification:** FCC-ee accelerators