



Workshop 20-21 November 2025 Nonlinear Vibrations in Structural Dynamics

Exploring nonlinear vibrations in structural dynamics, with a focus on experimental practices.

The content is subdivided into lectures as follows:

- **1 Fundamentals of vibration analysis**From sensors to A/D conversion, time and frequency domain processing
- 2 Modal analysis of linear structures
 Single-mode and multiple-mode analysis
- **3 Introduction to nonlinear vibrations**Real-world nonlinearities, modes in nonlinear systems
- **4 Detection of nonlinearities**Recognising nonlinear behaviour in test data
- 5 Characterisation & nonlinear modal analysis
 Experimental methods and identification algorithms
- 6 Numerical modelling, reduction & solving

 The challenge of bridging testing & simulation, commercial software solutions

Register here



grcodes.pro/KaOdKF

Participation

The course is intended for anyone involved in the structural dynamics field, whether in industry or research.

The workshop will be held online.

350 EUR participation fee.

Registration closes 31 October 2025.

Organisers



Francesco Trainotti
INVENTUM
Engineering Solutions



Tomas Slimak
INVENTUM
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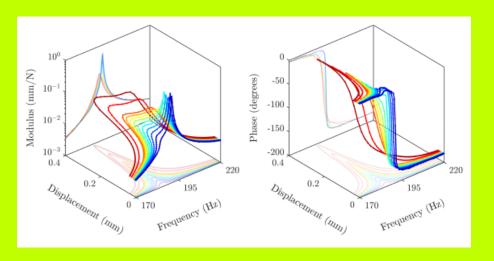


Dario Di Maio XCTE

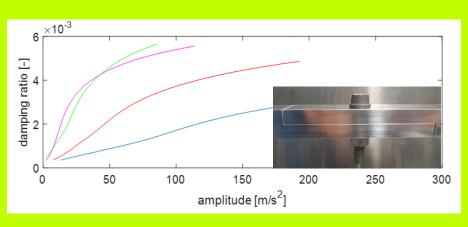


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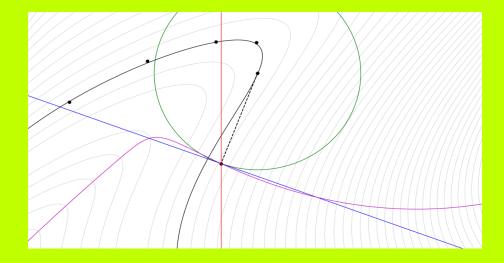




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Simulation



Contact

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