

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



qrcodes.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

Engineering Solutions



Dario Di Maio

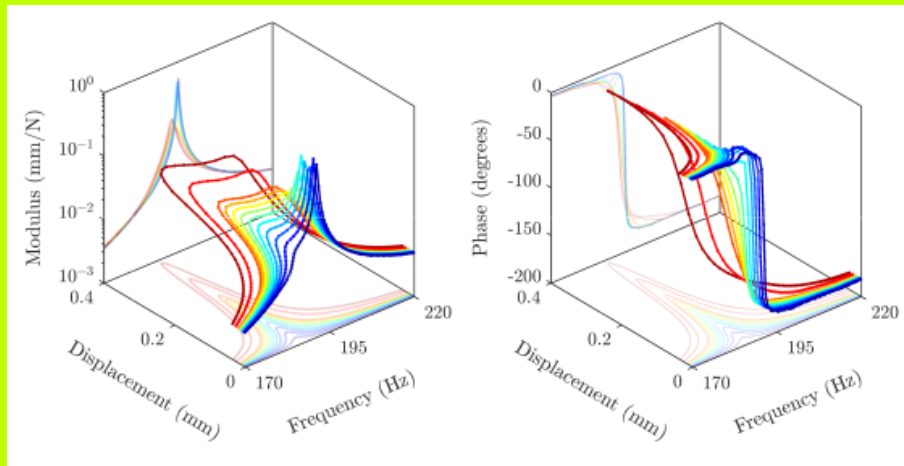
XCTE



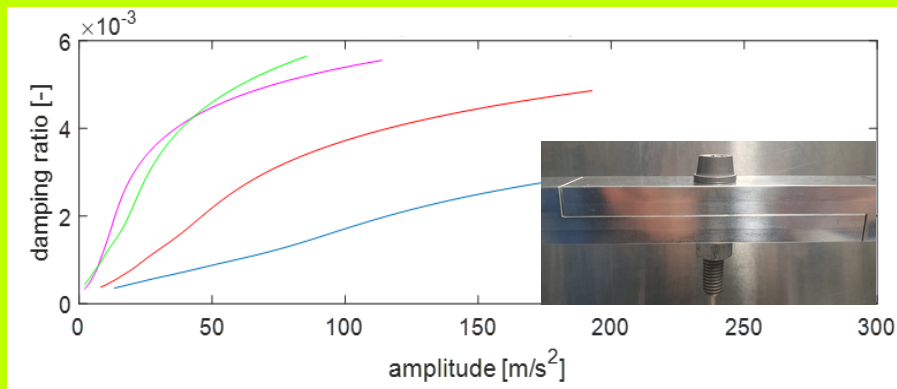
Jip van Tiggelen

XCTE

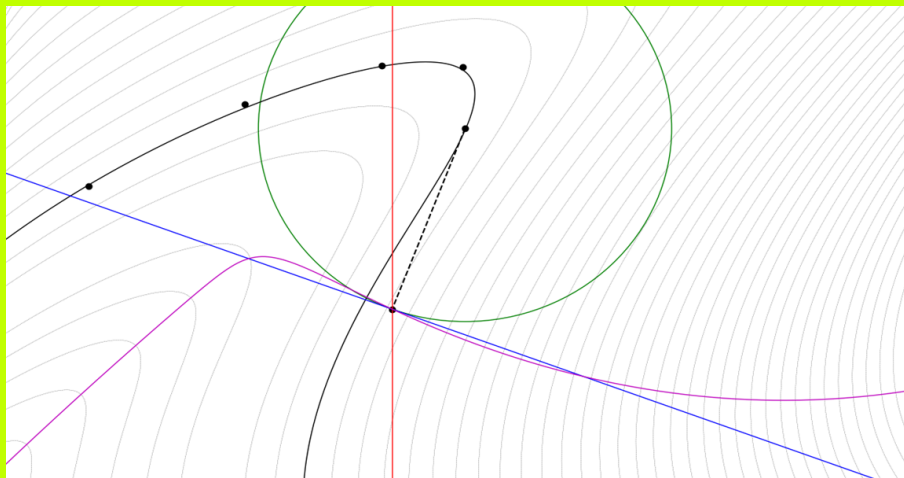
Testing



Identification



Simulation



Contact

INVENTUM Engineering Solutions
inventum-engineering.de
info@inventum-engineering.com

XCTE
xcte.eu
info@xcte.eu