

Title of the presentation

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Abstract Resume here, in maximum five lines, the content of your extended abstract in order to help the reader to quickly understand the main points of your work.

Start here the main text of your extended abstract. It must not exceed two pages and must be written in English. A print-ready pdf file is to be submitted on the [conference website](#) by March 15, 2019.

Each author's name should include first name initial and complete surname. The name of the presenting author must be underlined in the list. All equations must be separated from the surrounding text, centered and numbered using an Arabic number placed between parentheses and right justified. References to equations must be given in the text as in Eq. (1).

$$\mathbf{M} \ddot{\mathbf{q}}(t) + \mathbf{C} \dot{\mathbf{q}}(t) + \mathbf{K} \mathbf{q}(t) + \mathbf{f}^{\text{nl}}(\mathbf{q}(t), \dot{\mathbf{q}}(t)) = \mathbf{p}(t) \quad (1)$$

All figures must be consecutively numbered and captioned using the format "Figure X: ...", where X is an Arabic number. Citations of figures must be given in the text as in Figure 1. Similarly, all tables must be consecutively numbered and captioned using the format "Table X: ...", where X is an Arabic number. Citations of tables must be given in the text as in Table 1.

Mode	Description	Natural frequency	Damping ratio
1	Wing first bending	3.3Hz	0.52%
2	Wing torsion	6.1Hz	0.79%
3	Wing second bending	10.5Hz	0.84%

Table 1: Modal parameters of the aircraft structure.

References must be included at the end in a labelled "References" section of the extended abstract and must be sequentially numbered and listed in the order in which they are cited. Citations must be given in the text as an Arabic number between brackets, as in [1]. Multiple references must be ordered and separated by commas as in [1, 2]. Sequences of three or more references must be separated by a hyphen as in [1-4].

References

- [1] L. Renson, G. Kerschen and B. Cochelin, *Numerical computation of nonlinear normal modes in mechanical engineering*, Journal of Sound and Vibration 364, 177-206, 2016.
- [2] P-O. Mattei, R. Ponçot, M. Pachebat and R. Côte, *Nonlinear targeted energy transfer of two coupled cantilever beams coupled to a bistable light attachment*, Journal of Sound and Vibration 373, 29-51, 2016.

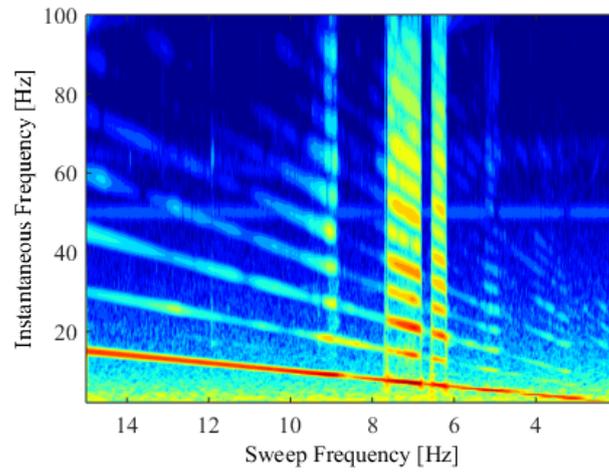


Figure 1: Wavelet transform amplitude (on a logarithmic scale) of the vertical acceleration measured at the wing-to-payload mounting interface.

- [3] C. Touzé and M. Amabili, *Nonlinear normal modes for damped geometrically nonlinear systems: Application to reduced-order modelling of harmonically forced structures*, Journal of Sound and Vibration 298, 958-981, 2006.
- [4] A.F. Vakakis, *Non-linear normal modes (NNMs) and their applications in vibration theory: An overview*, Mechanical Systems and Signal Processing 11, 3-22, 1997.