

Supplementary material  
for the paper

**Constant-amplitude sound waves  
in non-Hermitian disordered media**

Etienne Rivet<sup>1</sup>, Andre Brandstötter<sup>2</sup>, Konstantinos G. Makris<sup>3</sup>, Hervé Lissek<sup>1</sup>, Stefan Rotter<sup>2</sup>  
and Romain Fleury<sup>4,\*</sup>

<sup>1</sup> *Signal Processing Laboratory 2, EPFL, 1015 Lausanne, Switzerland*

<sup>2</sup> *Institute for Theoretical Physics, Vienna University of Technology (TU Wien), Vienna 1040, Austria, EU*

<sup>3</sup> *Department of Physics, University of Crete, 71003 Heraklion, Greece, EU*

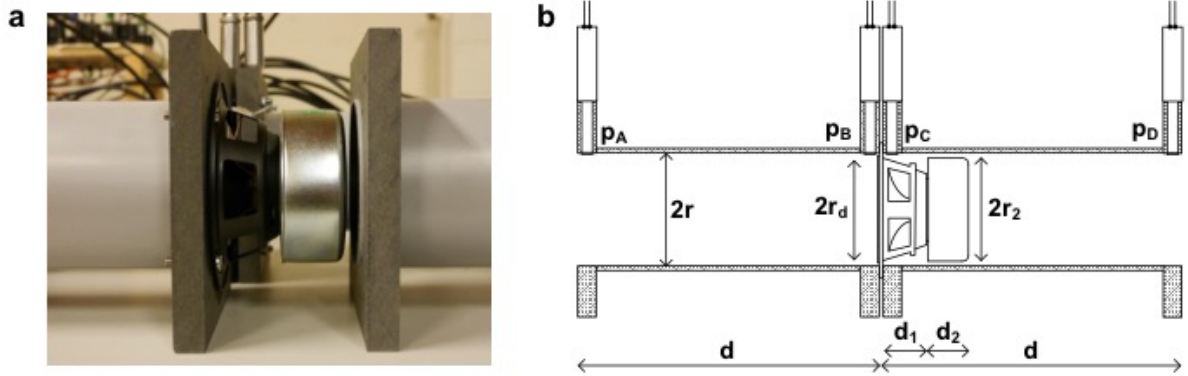
<sup>4</sup> *Laboratory of Wave Engineering, EPFL, 1015 Lausanne, Switzerland*

*\*To whom correspondence should be addressed. Email: romain.fleury@epfl.ch*

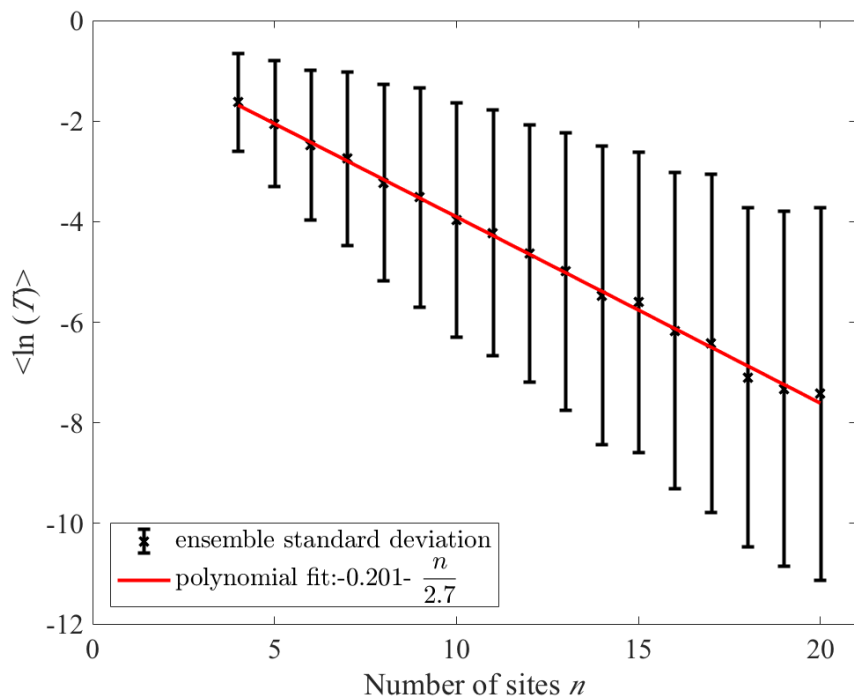
**Contents:**

**-Supplementary figure 1**

**-Supplementary figure 2**



**Supplementary figure 1:** (a) Photograph of the bulk of the loudspeaker driver. The volume of the voice coil and magnet is taken into account in the design of our prototype, via its equivalent transfer matrix. (b) Detailed geometrical parameters for the model described in the methods.



**Supplementary figure 2:** Ensemble average of the logarithm of the transmission coefficient over 1000 realizations of disorder as a function of the number of sites in the metamaterial as described in the Methods (1 site corresponds to a portion of tube of 34.3 cm).