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Float wave package generation in an acoustic waveguide

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Many measurements are carried out in an acoustic waveguide. An important role in such measurements is to isolate the system from ambient sounds to avoid interference of signals reaching the microphone. Low-, mid- and high-frequency loudspeakers are used along with the necessary hardware (preamplifier, amplifier) and software to generate acoustic pulses. In this work, we will show how the selection of loudspeaker enclosure and pulse duration affects the accuracy of acoustic measurements in the acoustic waveguide.