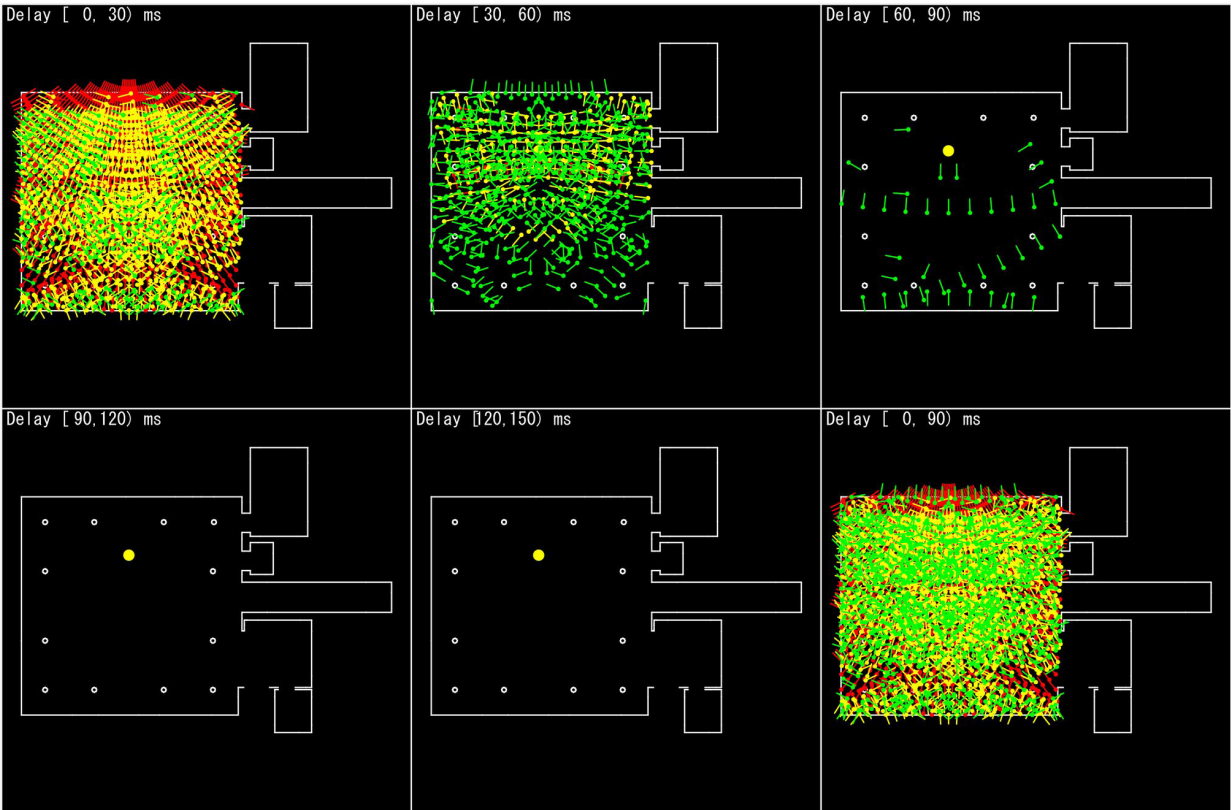


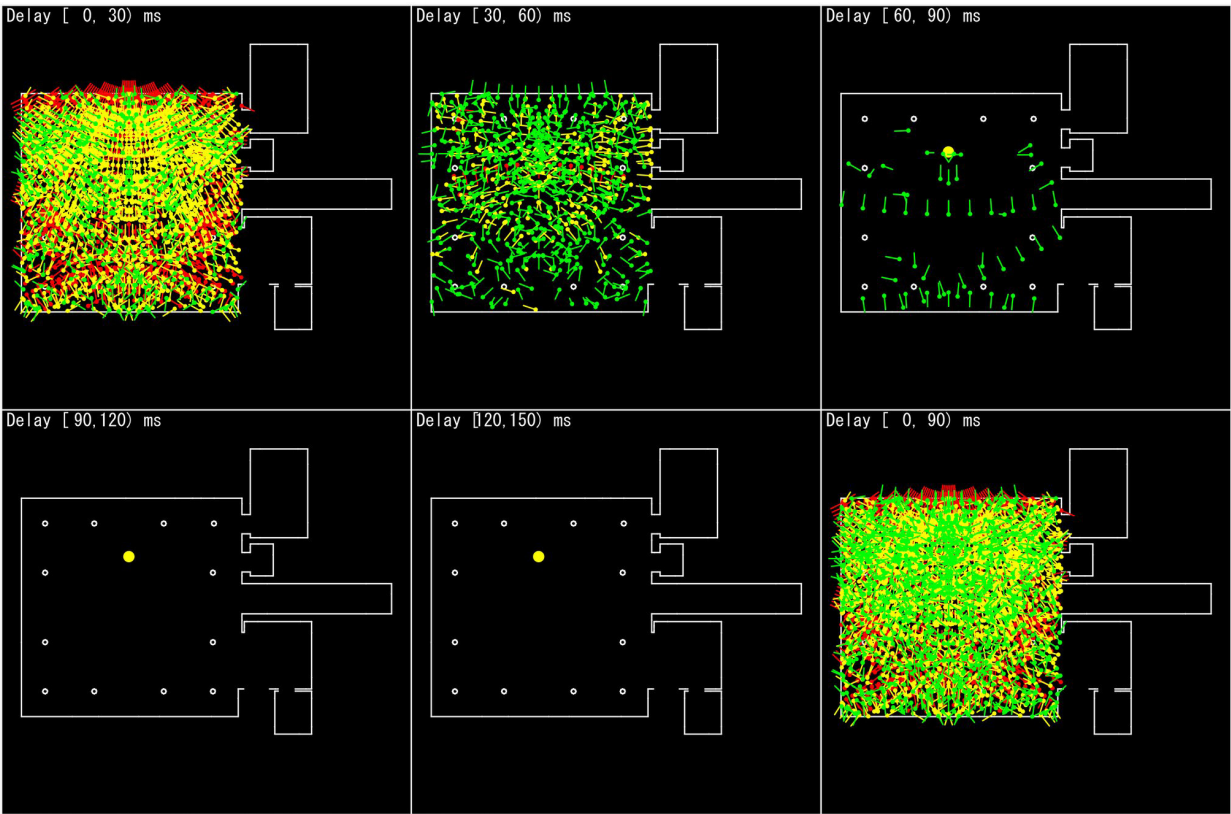
# Supplementary Materials for “Parametric Design of a Ceiling with the Ammann–Beenker Tiling”

The precise sound simulation data provided by NAGATA ACOUSTICS.

- Yellow dot: position of the source sound
- Red arrow: the primary reflection
- Yellow arrow: the secondary reflection
- Green arrow: the tertiary reflection



**Figure 1:** *The case when the ceiling is flat.*



**Figure 2:** *The case when the shape of ceiling is optimized.*