Volumetric reconstruction of acoustic energy flows in a reverberation room - DTU Orbit
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This study examines the spatial and directional properties of net energy flows in a reverberation chamber. Based on
measurements with a spherical array, a method is proposed to estimate the flows of acoustic energy in the volume
surrounding the array. The proposed method is used to examine the steady state, early decay, and late decay of the
sound field in a reverberation room (both empty and with an absorber on the floor). The results show that the approach is
successful in characterizing the spatio-spectral and spatio-temporal properties of power flows in reverberant sound fields,
constituting a valuable analysis tool.

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