Title (en)

DETERMINATION AND USE OF AUDITORY-SPACE-OPTIMIZED TRANSFER FUNCTIONS

Title (de)

ERMITTLUNG UND NUTZUNG HÖRRAUMOPTIMIERTER ÜBERTRAGUNGSFUNKTIONEN

Title (fr)

DÉTERMINATION ET UTILISATION DE FONCTIONS DE TRANSFERT ACOUSTIQUEMENT OPTIMISÉES

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Application

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Abstract (en)

[origin: WO2015180973A1] The invention relates to a device for determining transfer functions that are auditory-space-optimized for a listening space, which device is used for the auditory space-optimized post-processing of audio signals during spatial reproduction. Said device is designed to analyze space acoustics of the listening space (12) and, on the basis of the analysis of the space acoustics, to determine the auditory-space-optimized transfer functions for the listening space in which the spatial reproduction should occur by means of a binaural near-field sound transducer. The spatial reproduction of the audio signals by means of the binaural near-field sound transducer can then be emulated with the aid of known head-related transfer functions and with the aid of the auditory-space-optimized transfer functions, wherein a room to be synthesized can be emulated on the basis of the head-related transfer functions (HRTF) and wherein the listening space (12) can be emulated on the basis of the auditory-space-optimized transfer functions (TF).

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