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# On Wave Field Synthesis And Electro Acoustic Music With A Particular Focus On The Reproduction Ofa

**wave field synthesis: from research to applications** - wave-field-synthesis (wfs) is based on the wave theory concept of huygens: all points on a wave front serve as individual point sources of spherical secondary wave fronts. this principle is applied in acoustics by using a large number of small and closely spaced loudspeakers (loudspeaker arrays) (figure 1). each loudspeaker in the array is fed **wave field synthesis in three dimensions by multiple line ...** - research and creative applications beyond wave field synthesis 2. create an open source, cross-platform wave field synthesis software environment 3. enhance wave field synthesis by practically extending the virtual source space to the vertical dimension **wave field synthesis - fraunhofer idmt** - by means of wave field synthesis technology, which was invented by the delft university of technology, the netherlands, and developed further by fraunhofer idmt for full market maturity, a true-to-life sound impression can be created across the entire venue, so that each listener can fully immerse into the sound and enjoy a great **the theory of wave field synthesis revisited - t-labs** - the theory of wave field synthesis revisited sascha spors, rudolf rabenstein, and jens ahrens 124th convention of the audio engineering society amsterdam, 2008 may 17-20 ==="!§deutsche telekom laboratories s.spors et al.: theory of wfs revisited page 1 motivation • wave field synthesis (wfs) has been developed almost 20 years ago **simulation of wave field synthesis - webistem** - wave field synthesis utilizes a large number of loudspeakers to generate a desired wave field. it therefore is ne-cessary to drive each speaker with an independent signal, which requires as many amplifier and soundcard chan- **acoustic control by wave field synthesis - researchgate** - acoustic control by wave field synthesis a. j. berkhou, d. de vries, and p. vogel delft university of technology, laboratory of seismics and acoustics, p.o. box 5046, 2600 ga delft, **wave field synthesis - univie** - wave field synthesis (wfs) is based on the wave theory concept of huygens [7]: each point on a wave front can be regarded as the origin of a point source. the superposition of all these secondary dafx-i f. proc. of the 7th int. conference on digital audio effects (dafx'04), naples, italy, october 5-8,2004 **wave field synthesis - generation and reproduction of ...** - wave field synthesis (wfs) is based on the wave theory concept of huygens [7]: each point on a wave front can be regarded as the origin of a point source. the superposition of all these secondary dafx-1 proc. of the 7th int. conference on digital audio effects (dafx'04),naples, italy, october 5-8,2004 **wave field synthesis - a promising spatial rendering concept** - the wave field synthesis (wfs) concept for rendering virtual spatial characteristics of sound events. based on the huygens principle loudspeaker arrays are reproducing a synthetic sound field around the listener, whereby the dry audio signal is combined with measured or modelled information about the room and the **comparison of higher order ambisonics and wave field ...** - and wave field synthesis with respect to spatial discretization artifacts in time domain jens ahrens, hagen wierstorf, and sascha spors quality and usability lab, deutsche telekom laboratories, technische universita`t berlin, ernst-reuter-platz 7, 10587 berlin, germany correspondence should be addressed to jens ahrens (jens.ahrens@telekom ...

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