

<http://lva.insa-lyon.fr/>

Séminaire du LVA

Time-domain near-field acoustic holography (NAH) for planar source

Geng LIN

PhD Student, Hefei University of Technology (HFUT), Hefei, China

genglinhfut@gmail.com

Mardi 7 Octobre 2014 à 13h30

Salle de cours du LVA – INSA de Lyon

25 bis Avenue Jean Capelle, 69621 VILLEURBANNE

The main work is about noise source identification techniques, especially studying time-domain near-field acoustic holography (TNAH) for non-stationary sound fields. This topic is time-domain near-field acoustic holography (NAH) for planar source, which contains two aspects: Firstly, time domain plane wave superposition method is extended to realize the reconstruction of transient vibration and sound radiation of an impacted plate including reconstructing the transient pressure field radiated by an impacted plate and the normal acceleration of the plate; Secondly, in presence of disturbing sources, sound field separation method with pressure and particle acceleration measurements or using single layer pressure-velocity measurements is introduced to extract the desired non-stationary sound field generated by a target source from the mixed sound fields.