

研究室名	黒沢研究室 学会発表
------	------------

【発表者について】 アンダーラインは本学教員、研究員および技術職員、○は発表者、※は大学院生、卒研究生または卒業生

発表時期	2023.8.21
学会名	Internoise2023 No1-2-8
演題名	Vibro-acoustic analysis of sound absorbing duct using porous materials
発表者	○ <u>黒沢良夫</u> 、季承堯※、山下剛、尾崎哲也、中泉直之、藤田優希、高橋学
内容	<p>The electrification of automobiles has progressed in response to environmental problems. Accordingly, the number of automobiles equipped with large and large-capacity batteries, such as electric vehicles and hybrid vehicles, is increasing. These batteries take in air from the passenger compartment using ducts for cooling. However, since the cooling fan operates regardless of the running condition, sound may leak into the car interior through the ducts. To reduce such cabin noise, we examined the use of sound-absorbing ducts. We developed four types of test pieces using conventional polypropylene resin, compression felt, and film on the inside and outside of the compression felt. We measured the insertion loss in two ways: one on the opposite side and the other on the outside from the entrance of the duct. Acoustic attenuation was measured. The results of creating and calculating a similar FE model were then reported.</p>