SEMINAR ANNOUNCEMENT

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
COLLEGE OF DESIGN AND ENGINEERING
Website: https://cde.nus.edu.sg/ece

Area: Microwave & Radio Frequency

Host: Prof Chen Zhi Ning

TOPIC	**:**	**Decoupling and Matching Technology**
SPEAKER	**:**	**Ms. Xu Zhi Yue Julia** **Graduate Student, ECE Dept, NUS**
DATE	**:**	**Tuesday, 19 April 2022**
TIME	**:**	**1.30PM to 2.00PM**
WEBINAR	**:**	**Join Zoom Meeting** **https://nus-sg.zoom.us/j/85251376635?pwd=azVCQmpqUUY2SXBHWnZLbkxJS1N4Zz09** **Meeting ID: 852 5137 6635** **Passcode: 249232**

ABSTRACT

Mutual coupling can cause many negative effects, including signal interruption, system degradation, wrong object detection for radar, etc. Especially, radar systems prefer ultra-high isolation to reduce the range within which another antenna is wrongly detected as a nearby object. And since most radars adopt millimetre wave (mmWave) as their working frequency, mmWave decoupling technology is the primary focus. However, decoupling at such a high frequency faces many challenges. Hence, we sought inspirations from literature review and developed the research. As a result, the mmWave antenna system we developed demonstrates high isolation.

BIOGRAPHY

Julia Xu is an MEng student in NUS. Her study field is RF & Microwave and research focus is decoupling technology.

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