

NONDESTRUCTIVE ANALYSIS OF DEBONDING IN A HONEYCOMB COMPOSITE SANDWICH PANEL

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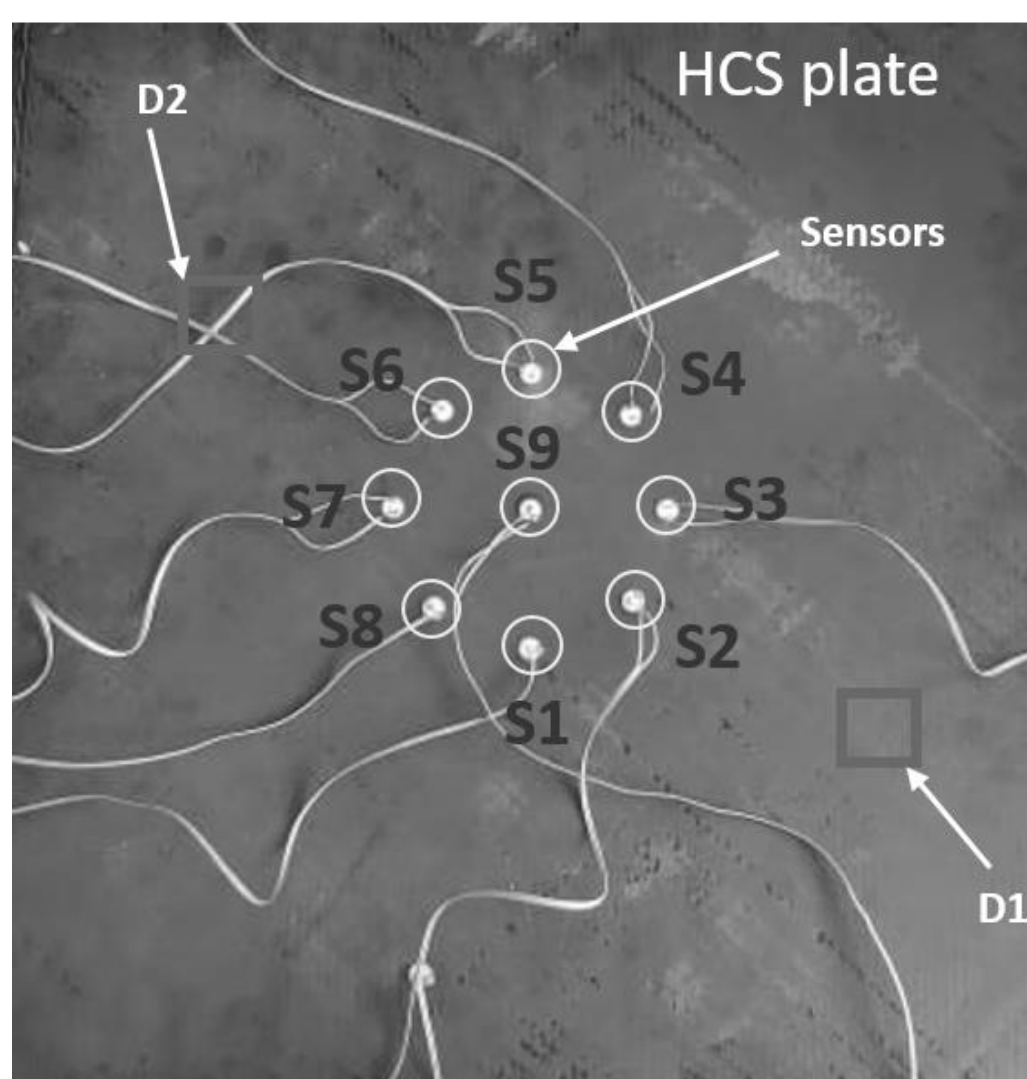
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INTRODUCTION

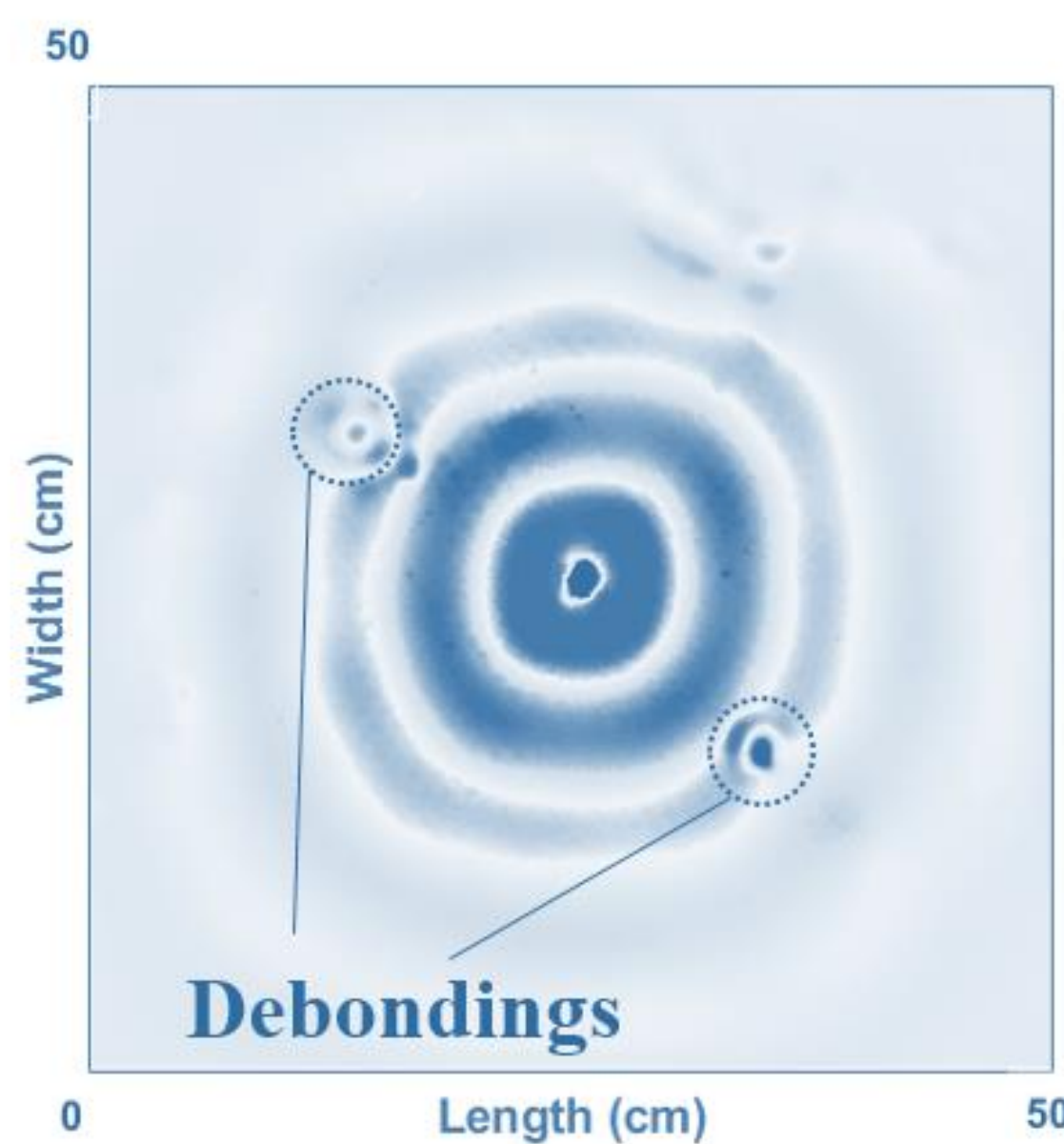
In the study, we focused on using nondestructive debonding detection strategies in honeycomb sandwich composite structures (HCS). The sandwich panels consist of CFRP facets and Aluminium core. Two different sized debondings were identified inside the panels using NDT applications.

RESULTS

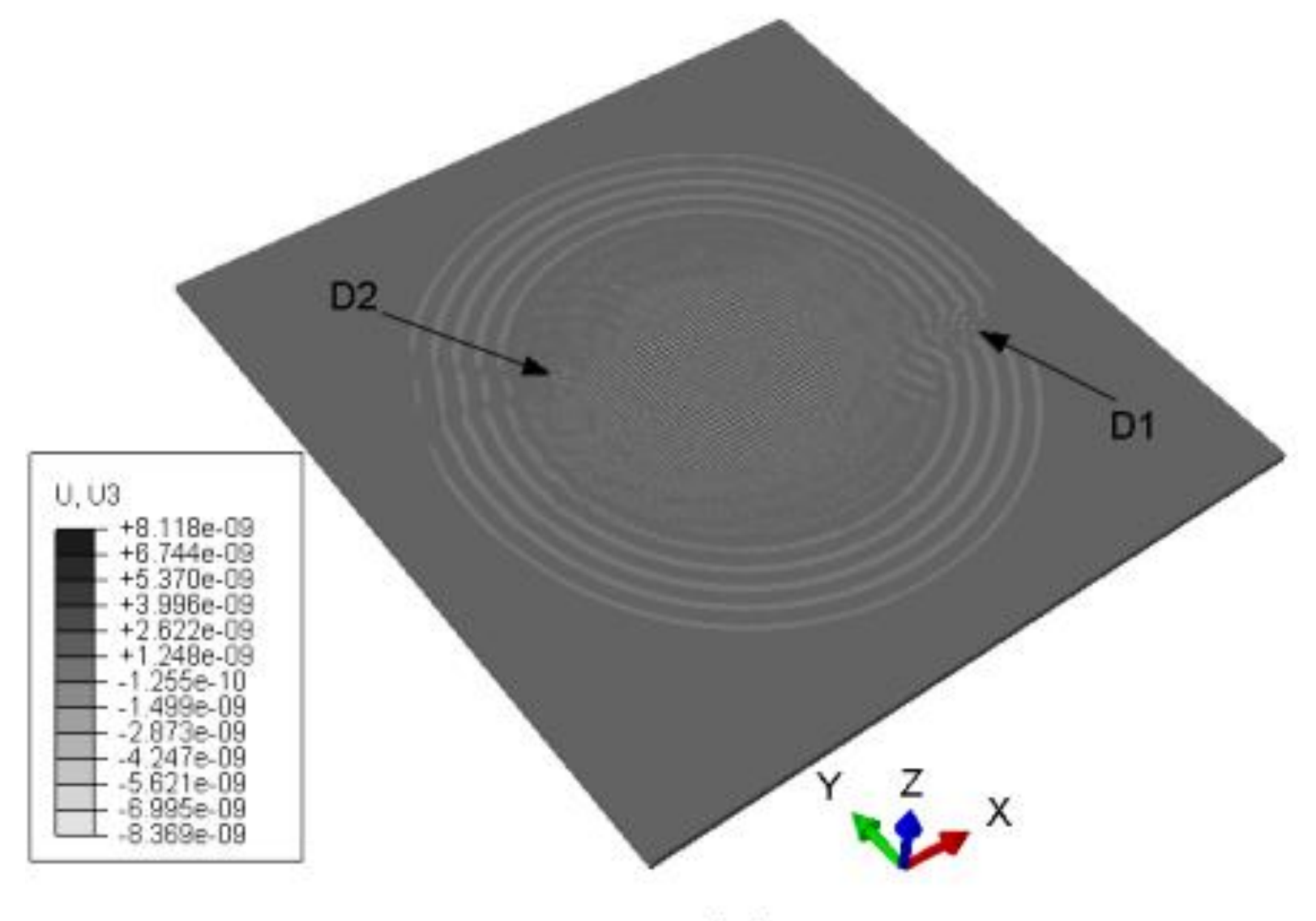
Sample HCS studied



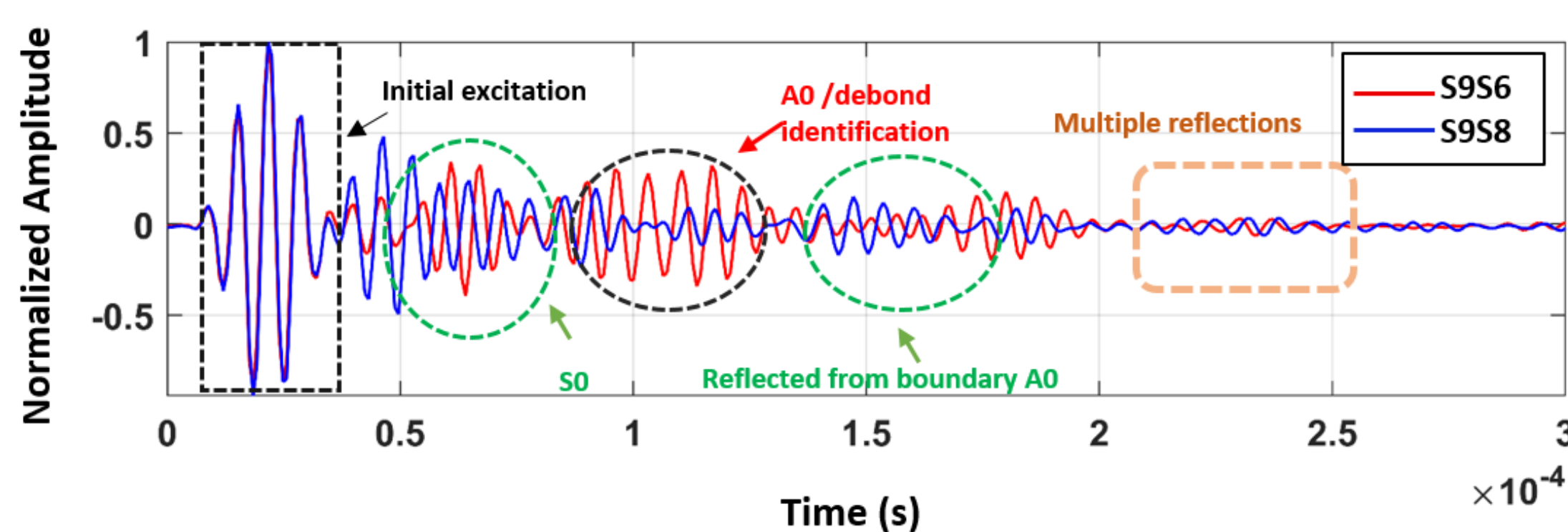
Guided waves from LDV



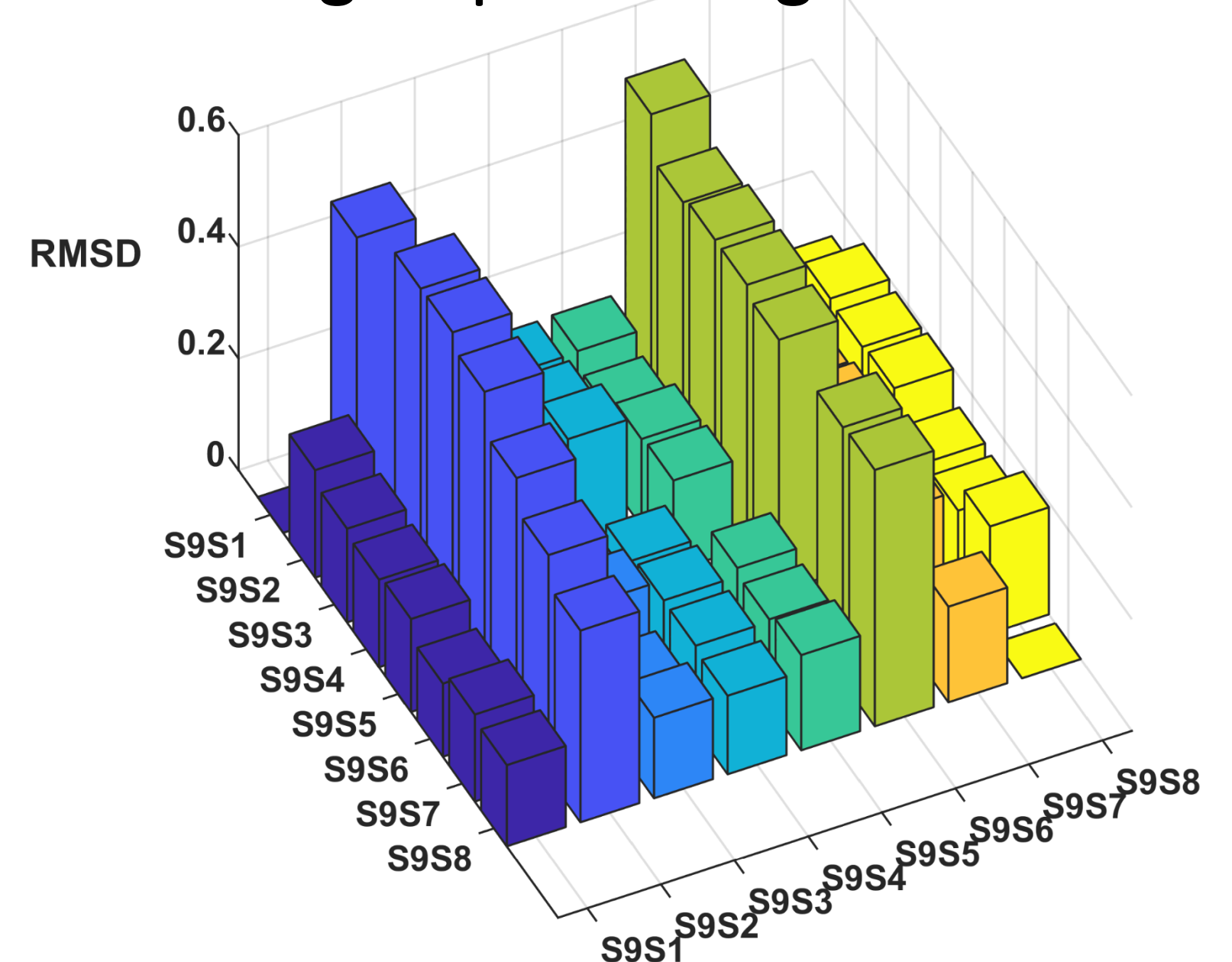
Guided waves from FEM



Signal analysis



Signal processing with RMSD



CONCLUSION

The poster shows NDT guided wave analysis of debonding identification inside HCS. Future works depends on localisation and damage severity analysis of the HCS using SHM applications.

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