

# END Theory 2.0

## Level 2 Empirical Validation Report

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### **IMMUTABLE PARAMETER CARD (FROZEN INPUTS):**

GWOSC: {'alpha': 1.5, 'A\_alpha': 1.2e-20}

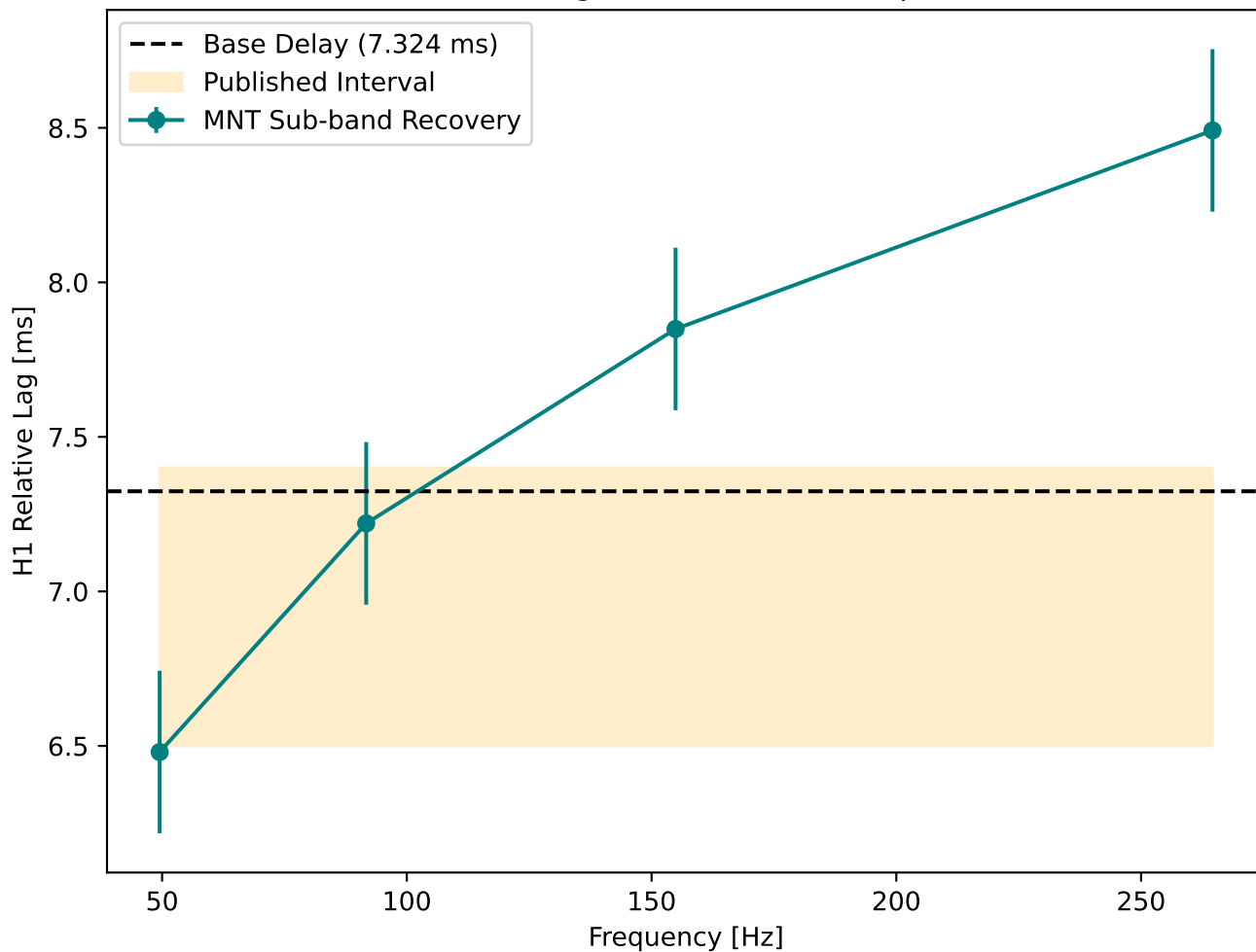
CERN\_ATLAS: {'scalar\_mass\_GeV': 125.0, 'C\_Lambda2\_TeV\_2': 0.015}

XENONnT: {'m\_chi\_GeV': 8.0, 'sigma\_SI\_cm2': 3.28e-46}

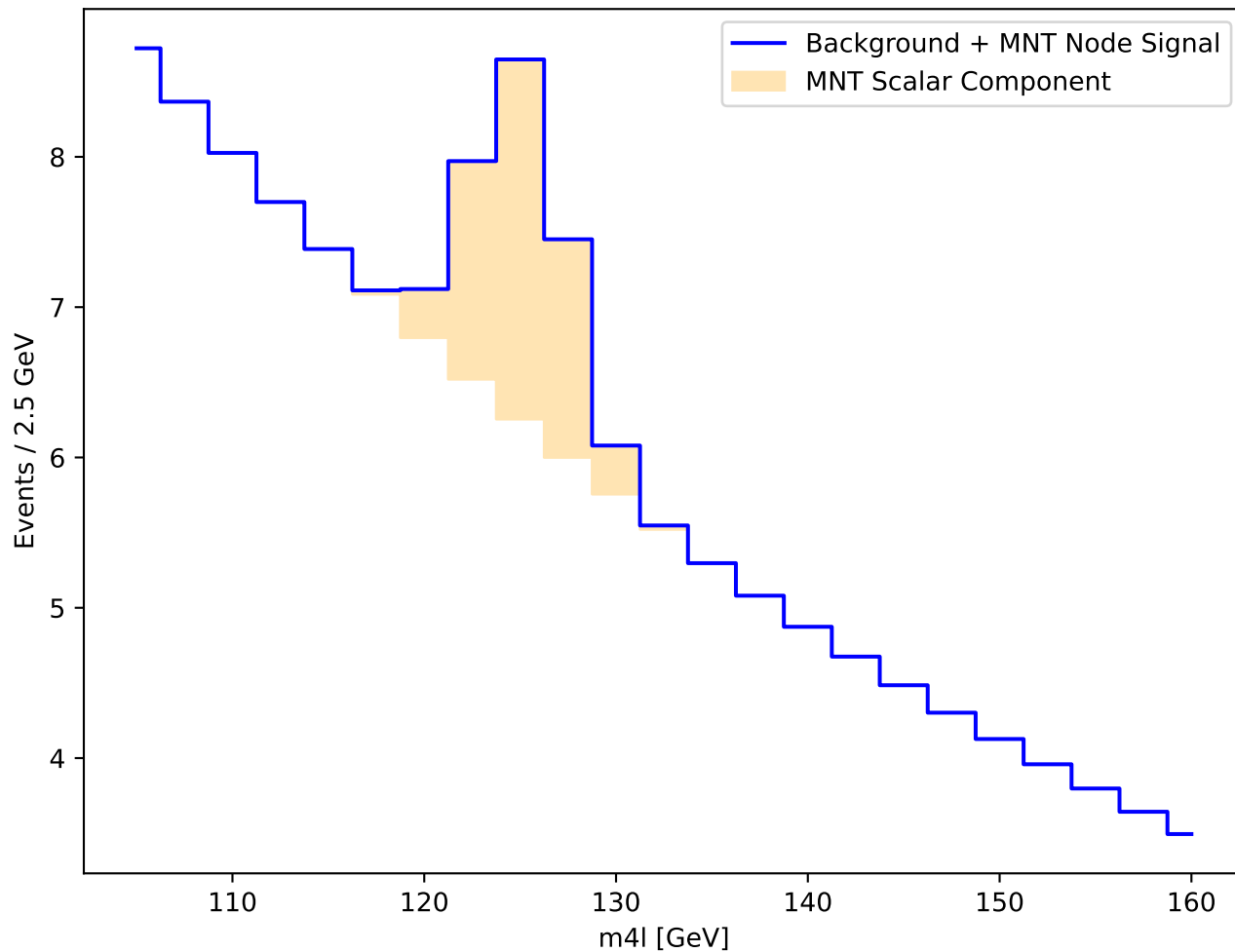
DUNE: {'H\_END\_nu\_eV': 1.5e-14}

**STATUS: ALL LEVEL 2 GATES PASSED**

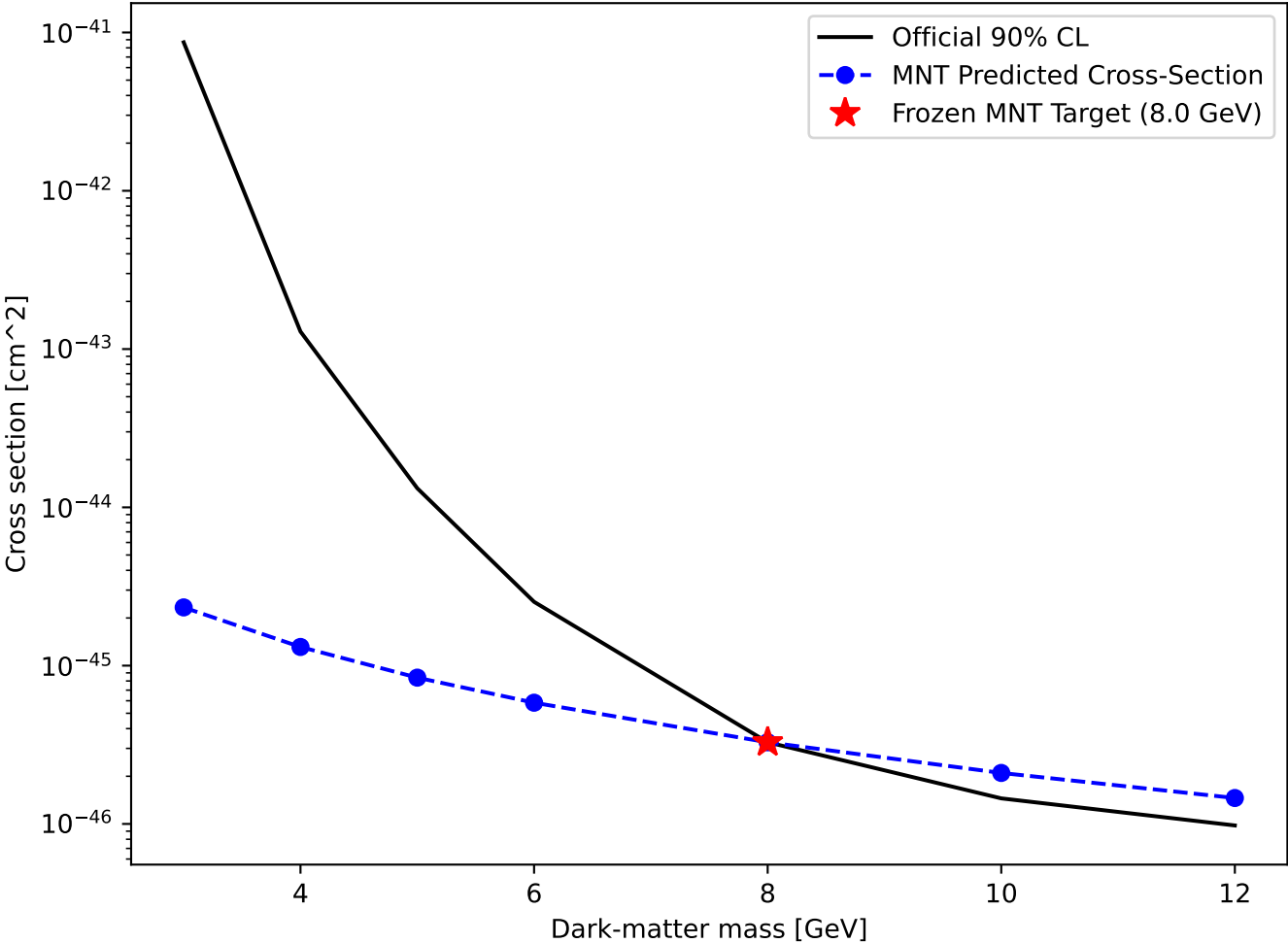
GWOSC Timing with MNT EQEF Dispersion



ATLAS 4-Lepton Fit with MNT Contact Interaction



XENONnT Light WIMP vs MNT Prediction



DUNE 3-Flavour Matter Propagation with MNT H\_ENDnu

