

Neutron Matching Efficiency

MAIA Detector Concept

Muon Collider

Simulation with BIB+IPP (EU24 Lattice)

$\sqrt{s} = 10$ TeV

$30 \text{ GeV} < \text{True Neutron } E < 1 \text{ TeV}$



Without BIB+IPP overlay



With BIB+IPP overlay, truth-assisted

0.5

1.0

1.5

2.0

2.5

True Neutron θ [rad]