

# Progress Report

ZHH Meeting | 2026/06/03

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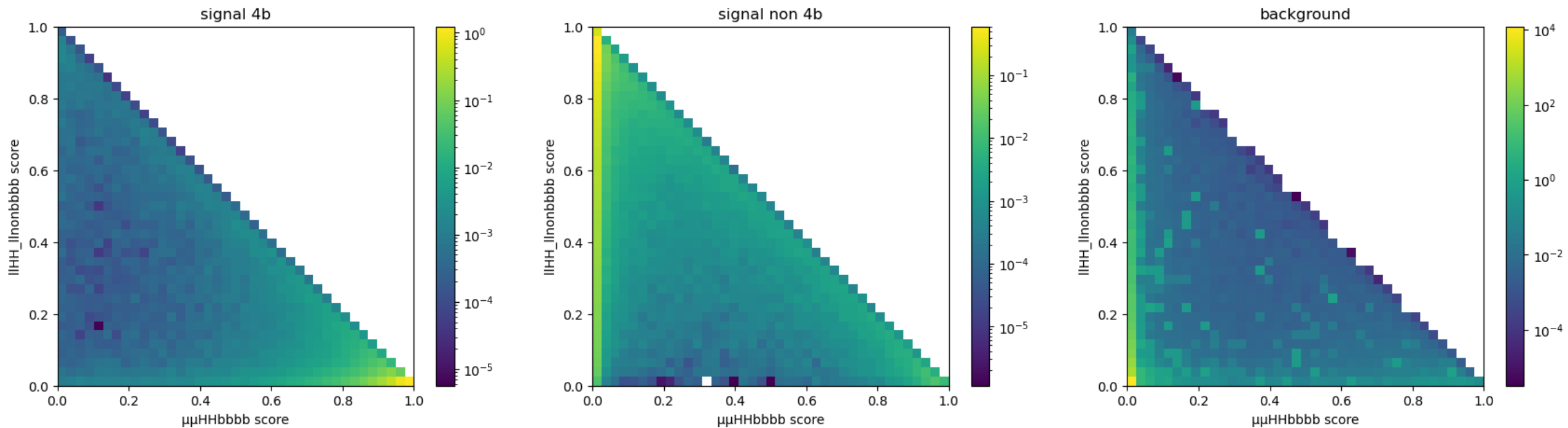


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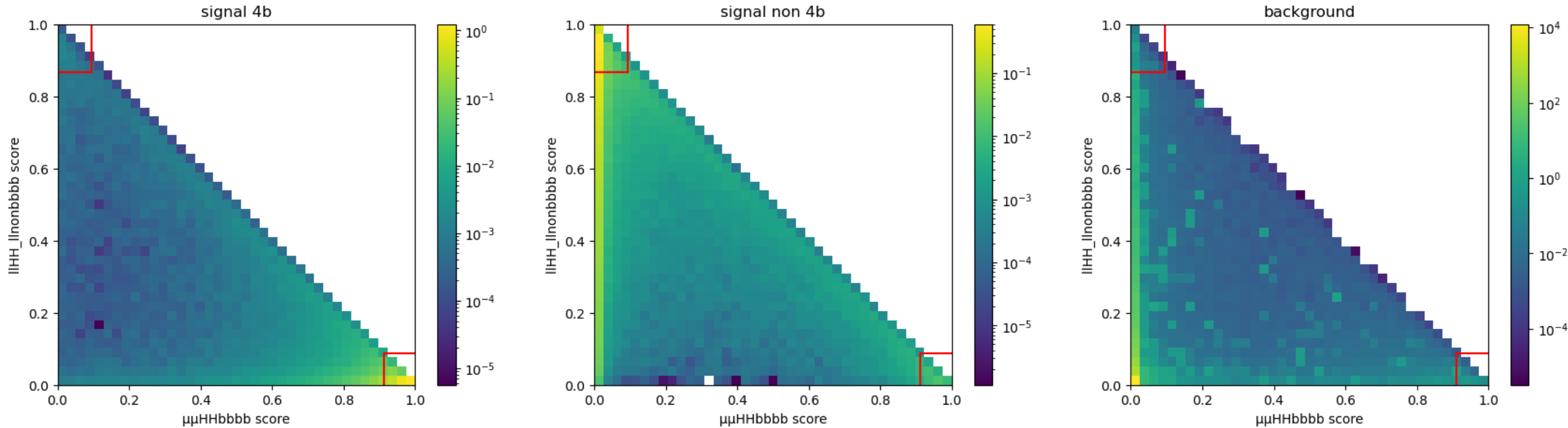


# Optimization in the Muon Channel



➤ 2D Histograms of signal classes (4b vs non-4b)

# Optimization in the Muon Channel



- 2D Histograms of signal classes (4b vs non-4b)
- Optimizing using boxes at the high-signal probabilities
- Fit box sizes by maximizing significance

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391471 0.911, 0.0888, 0.0954, 0.867 Nsig=5.61 Nbkg=3.12 significance=1.899
391467 0.911, 0.0888, 0.0954, 0.867 Nsig=5.61 Nbkg=3.12 significance=1.899
391469 0.911, 0.0888, 0.0954, 0.867 Nsig=5.61 Nbkg=3.12 significance=1.899
391468 0.911, 0.0888, 0.0954, 0.867 Nsig=5.61 Nbkg=3.12 significance=1.899
391467 0.911, 0.0888, 0.0954, 0.867 Nsig=5.61 Nbkg=3.12 significance=1.899
391468 0.911, 0.0888, 0.0954, 0.867 Nsig=5.61 Nbkg=3.12 significance=1.899
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391463 0.911, 0.0888, 0.0954, 0.867 Nsig=5.61 Nbkg=3.12 significance=1.899
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391458 0.911, 0.0888, 0.0954, 0.867 Nsig=5.61 Nbkg=3.1 significance=1.902
391459 0.911, 0.0888, 0.0954, 0.867 Nsig=5.61 Nbkg=3.1 significance=1.902
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391452 0.911, 0.0888, 0.0954, 0.867 Nsig=5.61 Nbkg=3.1 significance=1.902
  
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# Muon Channel (previously, using sum of scores)

