



LOUISIANA STATE UNIVERSITY



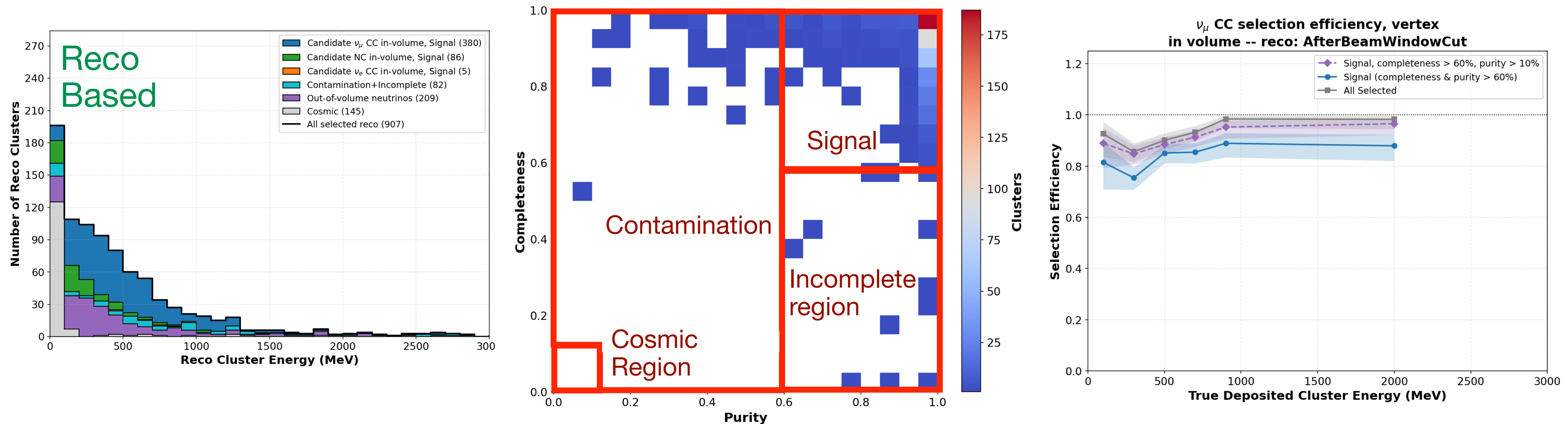
Status of Generic Neutrino Selections

SBND Wirecell Meeting

Prabhjot Singh, 20 Aug 2026

Presentation in SBND Reco Meeting

[docdb-48940](#)



- Status of wirecell based reconstruction was presented in the SBND Reco meeting this Tuesday, 18 Aug 2026 in [docdb-48940](#)
- Results were well received and we showed our generic selected reconstructed clusters, quality of reconstruction, and selection efficiency

Next Steps

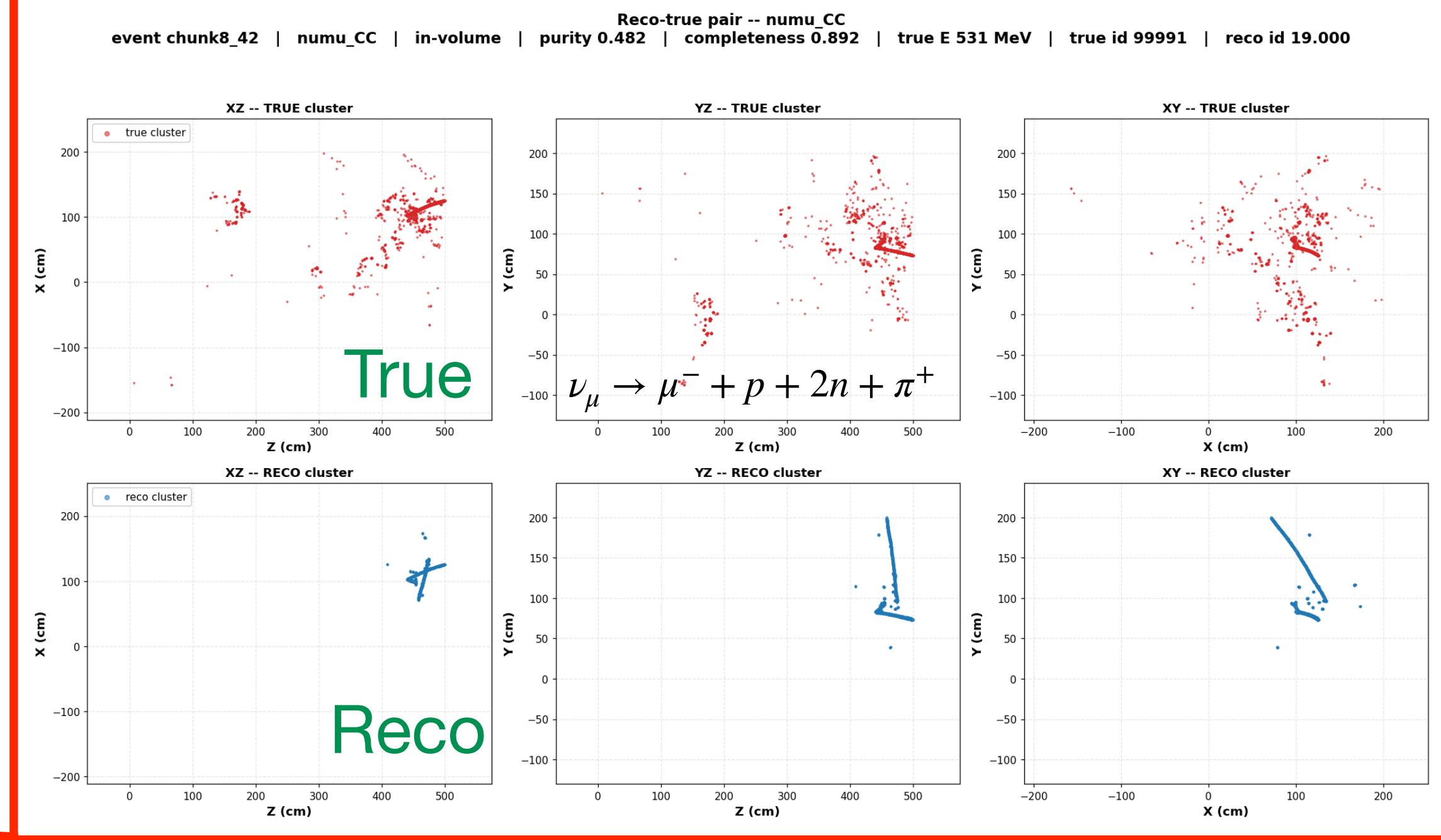
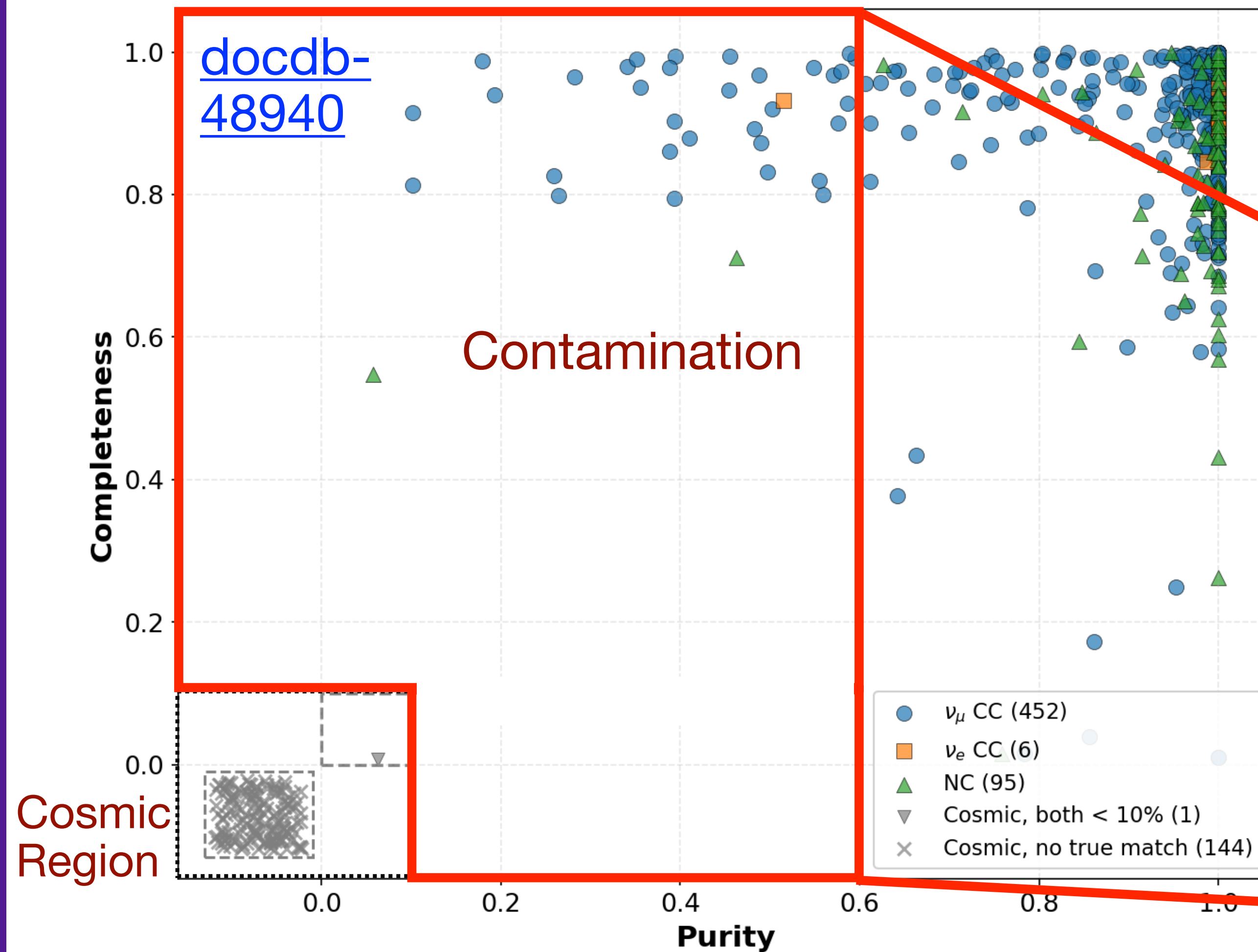
- Further investigation on contaminated events
- Evaluation of NC selection efficiency
- Evaluation of nueCC selection efficiency using special nueCC MC sample
- Evaluation of cosmic taggers (to reduce both neutrino out-of-volume and in-beam cosmics)
- Handscan of preliminary pattern recognition results from Xin

Next Steps

- Further investigation on contaminated events

High Completeness Moderate to Low Purity:
Challenging Signal

- In-beam neutrino contaminated by a cosmic
- Pattern Recognition will help in mitigating these cases by removing cosmic



[Bee display: link](#)

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For these we need to run reconstruction
on special nueCC, and NC samples

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We already have cosmic tagger. I need to include them in my selection and evaluation scripts

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Backup