



GENIE and NOvA

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- In NOvA, we use GENIE for oscillation analyses (disappearance and appearance), background estimation (NC, numu component in appearance analysis), and most other analyses (cross-section, sterile)
 - really for everything
- So far still using 2.12, very excited to start using v3
- Main MC samples are generated for each major analysis, which is partly determined by when stats increase appreciably. Over the next year we'll make a large v3 production, then that'll last a year or two
- Our largest problems are models – 2p2h, RPA, etc, not code structure
 - Tune our own 2p2h, add RPA, tweak single-pion non-res rate
 - Also felt the need to expand/tweak some systematics – QE, DIS, 2p2h, RPA