

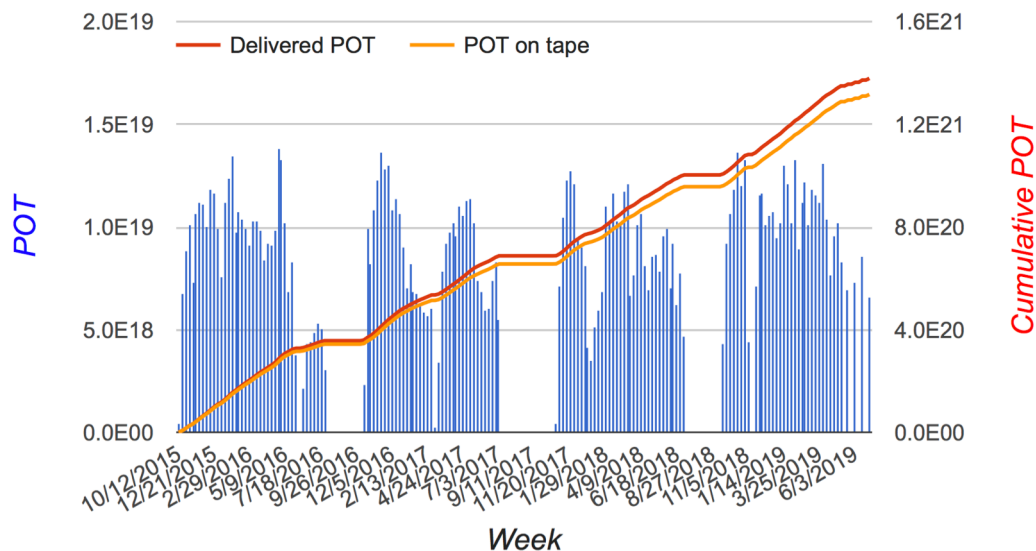
# Discussion of the Role of MicroBooNE in the SBN Organization

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# Status of MicroBooNE Running

- MicroBooNE has been running since October 2015 and has collected  $13.4 \times 10^{20}$  POT
- BNB delivery has been excellent. Detector continues to operate well: 96% uptime
- Request was made to the Fermilab PAC in July for MicroBooNE running in FY20 in order to accumulate increased statistics with the CRT. Waiting for PAC report.



## POT accumulation/year:

FY16:  $3.6 \times 10^{20}$  POT

FY17:  $2.9 \times 10^{20}$  POT

FY18:  $3.1 \times 10^{20}$  POT

FY19:  $3.8 \times 10^{20}$  POT

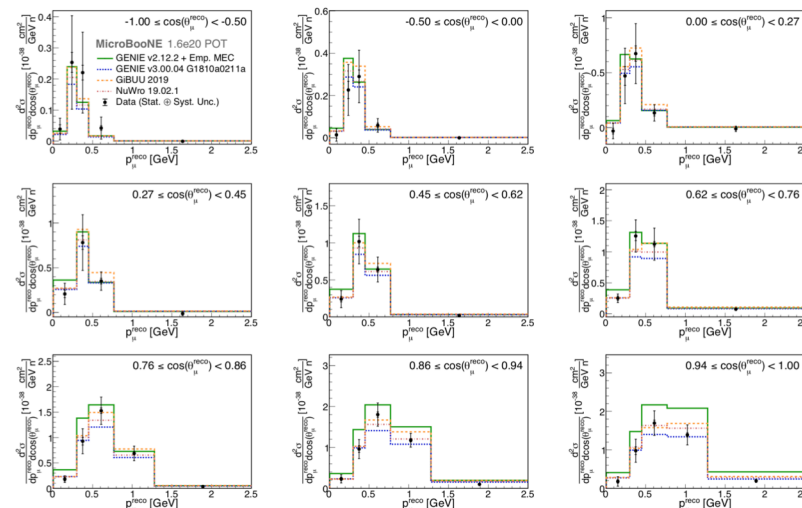
**$13.4 \times 10^{20}$  POT**

# MicroBooNE Data Analysis

- MicroBooNE has produced 16 papers and 34 public notes, to date
  - <https://microboone.fnal.gov/documents-publications/>

- MicroBooNE is performing a blind analysis
- Data that is currently open to MicroBooNE:
  - 5% data set
  - Run 1 (~1/4 of data set) BNB  $\nu_\mu$  CC data
  - all non-BNB data (laser, cosmic, NuMI)
  - samples for calibrations, data quality checks

- Goal is to unblind and produce our first “low energy excess” results within the next year



$\nu_\mu$  CC inclusive cross sections  
<https://arxiv.org/abs/1905.09694>

# MicroBooNE in SBN

- MicroBooNE would like to transition to become a partner in SBN
- We would like for data from all 3 detectors (ICARUS, MicroBooNE, SBND) to be used for multiple detector analyses and MicroBooNE would be happy to be a part of this process and associated discussions
- MicroBooNE would like to participate in the development of joint analyses and how the data can be used together