



# Proposed Beam Scan in Fall 2020

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9/29/2020

# Note for Beam Scan in Fall 2020

- AD shutdown schedule shows that the first beam scan will be taken place in the week of 11/16/2020
- The HEP operation will start from the week of 11/30/2020
- Because the beam operation follows the COVID mode, the MCR access is limited
  - Crew chief + Operator + Katsuya in MCR
    - Crew chief: Turn on/off beam into NuMI, Adjust beam current
    - Operator: Adjust beam position, Support Adam/Alyssa/Phil
    - Katsuya: Proceed run plan, Check data quality
  - Run Co + MI physicists + AD/TSD physicists will connect remotely via zoom
    - Consulting & Observer

# Tentative Schedule (I)



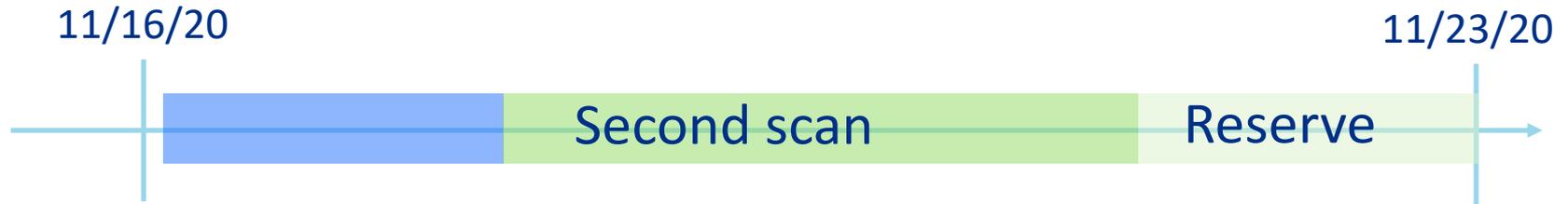
First low intensity beam scan (4-6 hrs)

- Hadron monitor scan
- X-hair scan

Adjust horn position (0.5 day(?))

- Adjust horn position if needed
- Another X-hair scan (4-6 hrs) if needed

# Tentative Schedule (II)



Second low intensity beam scan (4-6 hrs)

- Target scan

Adjust target position (1-1.5 day(?))

- Adjust target position if needed
- Another Target scan (4-6 hrs) if needed

# Summary

- We will accomplish the low intensity beam scan in two weeks
  - Align NuMI target, baffle, horns
  - Most likely, the low intensity beam scan is done in the week of 11/16/20
  - Reserve the week of 11/23/20 for contingency
- Start HEP operation from 11/30/20
- Lessons learned from the first beam scan to modify a strategy for future beam scan