### Hydrogen Buffer the NA61/SHINE

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#### Status

#### Buffer:

these slides

#### Control and gas racks:

first discussions done, iteration with TE-CRG, EP-DT-DI and EP Safety/HSE in near future

### Pipes:

Exhaust pipe exists

New pipe between the gas rack and the buffer outside is needed - TE-CRG agreed to handle it

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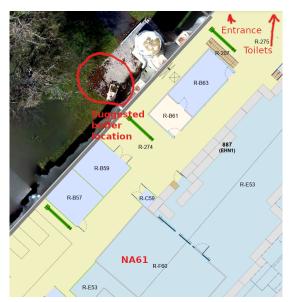
### • Brief description:

Installation of Hydrogen Buffer for the NA61/SHINE experiment outside of EHN1 (Jura side) as part of the project related to installation of the Liquid Hydrogen Target in NA61/SHINE.

### • Reason for the change:

Part of the new Liquid Hydrogen Target for NA61/SHINE Request of secondary proton beam at 300 GeV/c in 2025 (22.10-19.11) for new pp measurements.

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#### • The area needs refurbishment:

- Debris of an old installation should be removed. The tail container should stay.
- Old and unused cryo elements should be dismantled
- Unused electrical infrastructure has to be checked, refurbished and prepared to satisfy the needs of the buffer heater (10-16A, max 2kW)



Afterwards, the cage to contain the buffer should be installed as well as the buffer itself. Our needs require the volume of the buffer to be 2m3.

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Thank you!

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