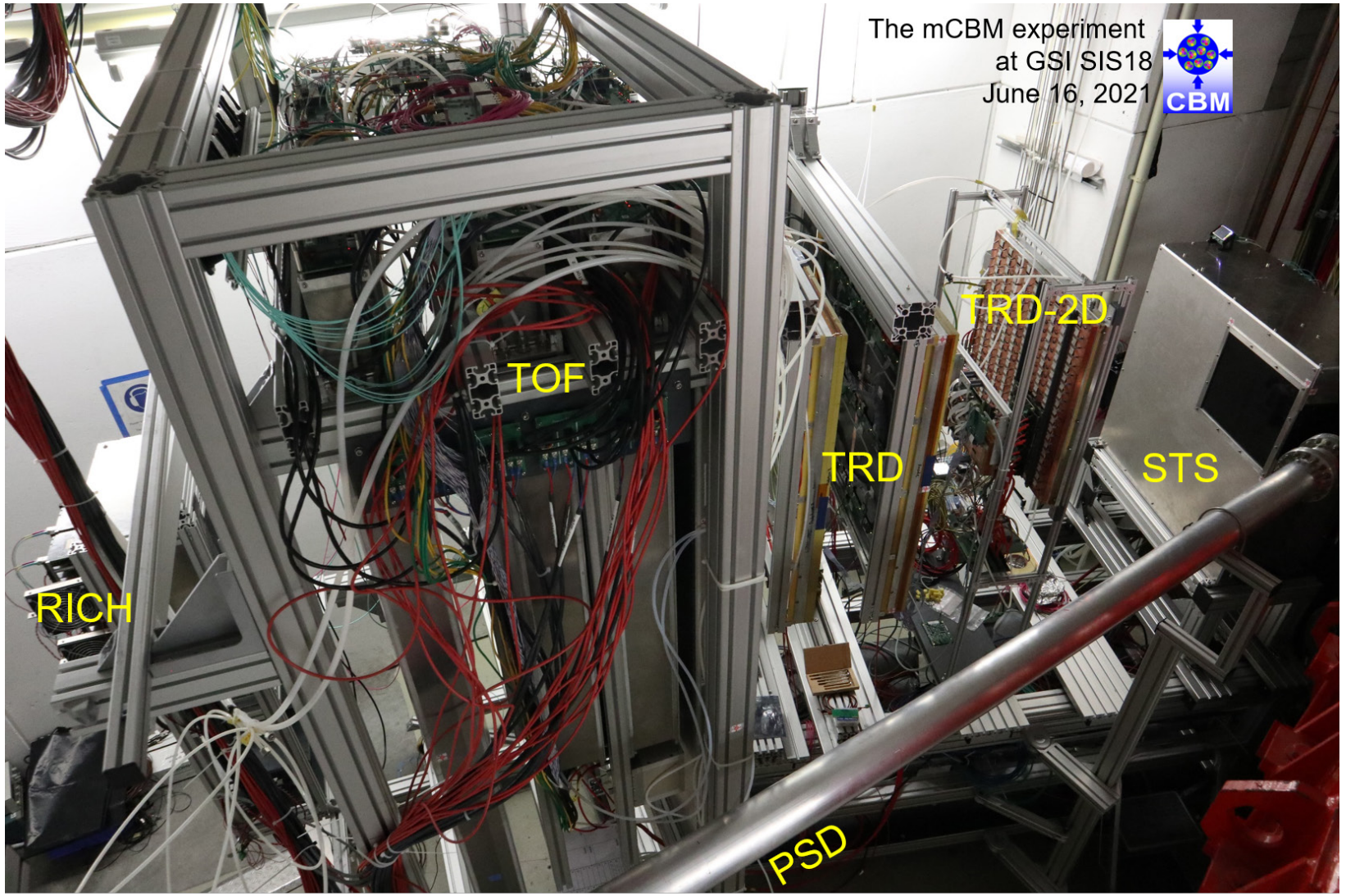

28th mCBM Meeting

January 31st , 2022

Christian Sturm

mCBM beamtime schedule 2022

March 6 - 13, few hours ???
C + Ni 2.0 AGeV
start of commissioning with beam

March 25 - 31, 2 shifts
^{238}U + Au 1.0 AGeV, high-rate tests
test of MUCH GEM & RPC

April 10 , 1 shift ???
^{56}Fe + Ni 1.8 AGeV
continuation of high-rate tests

May 24 - 28 , 6 shifts
^{58}Ni + Ni 1.9 AGeV
1st benchmark run

June 8 - 17 , 5 days / 15 shifts
^{197}Au + Au 1.2 AGeV

-	2nd benchmark run	9 shifts
-	adaption of setup	1 shift
-	high-rate tests	5 shifts

ToDo - mCBM campaign 2022

Dry runs / cosmics runs:
- Status TFC
- Common system with TOF & TRD, TOF & TRD & RICH, TOF & TRD & RICH & STS, + MUCH
- "Simple" online selection / filtering - towards Au+Au run

STS
- Restart / check U3 (configuration)
- Origin of data spikes (51.2 µs noise)

TRD
- Upgrade of TRD-2D
- TRD-1 - origin of high noise level

MUCH
- Integration into common data stream (software)
- detector test / stability test

Simulation:
- event-based Ni+Ni 1.93AGeV, Au+Au 1.23AGeV → Λ reconstruction strategy → optimization of the setup !
- time-based

Online monitoring / fast data analysis:
- QA DAQ / data transport
- QA subsystems

ECS / "simple" run control
(for at least "experienced users")

mCBM beam campaign 2022 - schedule

Oct 21 | Nov 21 | Dec 21 | Jan 22 | Feb 22 | Mar 22 | Apr 22 | May 22 | Jun 22 | t

vacuum system, venting/cooling

subsystem firmware revision
TFC
ECS ("simple" run control)

MUCH GEM upgrade & integration (GEM & RPC)

T0 upgrade & integration

TRD-2D upgrade

simulation - optimization of setup

online monitoring / fast data analysis

online selection / filtering

dry runs & cosmics campaign
TOF + TRD ... + RICH ... + STS .... + MUCH
develop / test online selection

comm. C+Ni, 2.0AGeV

high-rate tests U+Au 1.0AGeV

high-rate tests (?) Fe+Ni 1.8 AGeV

benchmark runs Ni+Ni & Au+Au

Today's preparation and discussion session

- dry runs / cosmics runs

- Status of the TFC
- Status of the online software

- Status of the MUCH system (GEM & RPC)
- Status of the TRD-2D upgrade
- Status of LGAD & diamond