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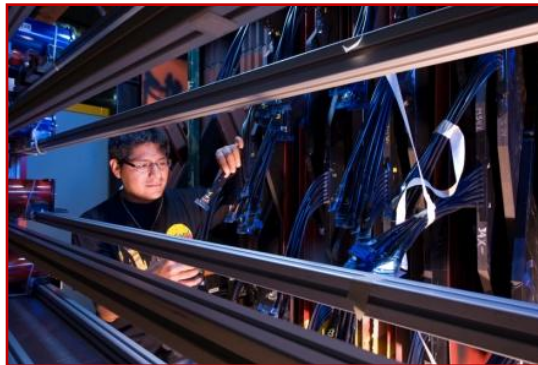
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Fermilab

Test Beam Facility



<http://www-ppd.fnal.gov/FTBF>



Fermilab

TEST BEAM FACILITY

Information for Experimenters



ABOUT FTBF

The Fermilab Test Beam Facility (FTBF) is devoted to detector research and development. The facility consists of two versatile beam lines (MTest and MCenter) in which users can test equipment or detectors.

The facility is located at the Fermi National Accelerator Laboratory in Batavia, IL, on the west side of the Meson Detector Building.

ABOUT THE BEAM

Typically, beam is delivered in one 4 second spill per minute for 12 hours a day between the hours of 1000 and 2200.

The primary beam consists of high energy protons (120 GeV) at moderate intensities (~1-300 kHz). This beam can also be targeted to create secondary, or even tertiary particle beams of energies down to below 1 GeV, consisting of pions, muons, and/or electrons. Intensities up to 100 kHz can be reached.

More Beam Details can be found on our webpage, below.

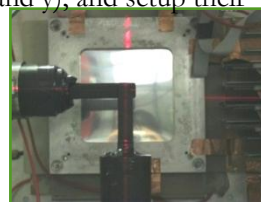


ABOUT THE FACILITY

Within the beamline enclosures, and available to all approved users, the facility provides motion tables at different locations which can be viewed and controlled remotely from the control rooms while beam is running.

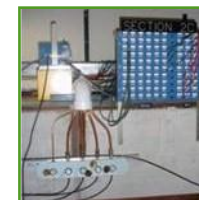


Section 2 of the MT6 enclosures (the most commonly used area) has a system of lasers installed such that users can determine the exact location of the beam (in x and y), and setup their apparatus accordingly.



The facility also provides multiple types of beam detector instrumentation, for tracking, particle identification, and triggering. These include scintillator counters, Cerenkov detectors, lead glass calorimeters, pixel telescopes, time-of-flight systems and several types of wire chambers. These systems can work alone and come with their own DAQ system, or they can be integrated into the user's setup.

The MTest beamline is outfitted with a gas distribution system, which delivers gas to 6 locations, 2 of which have flammable gas capabilities. Some gases, like Nitrogen, are provided by the facility.



Both beamlines are also outfitted with signal and High Voltage cable patch panels, located at pre-determined positions throughout the enclosures to be near equipment setup areas. These patch panels are linked to the various control rooms.

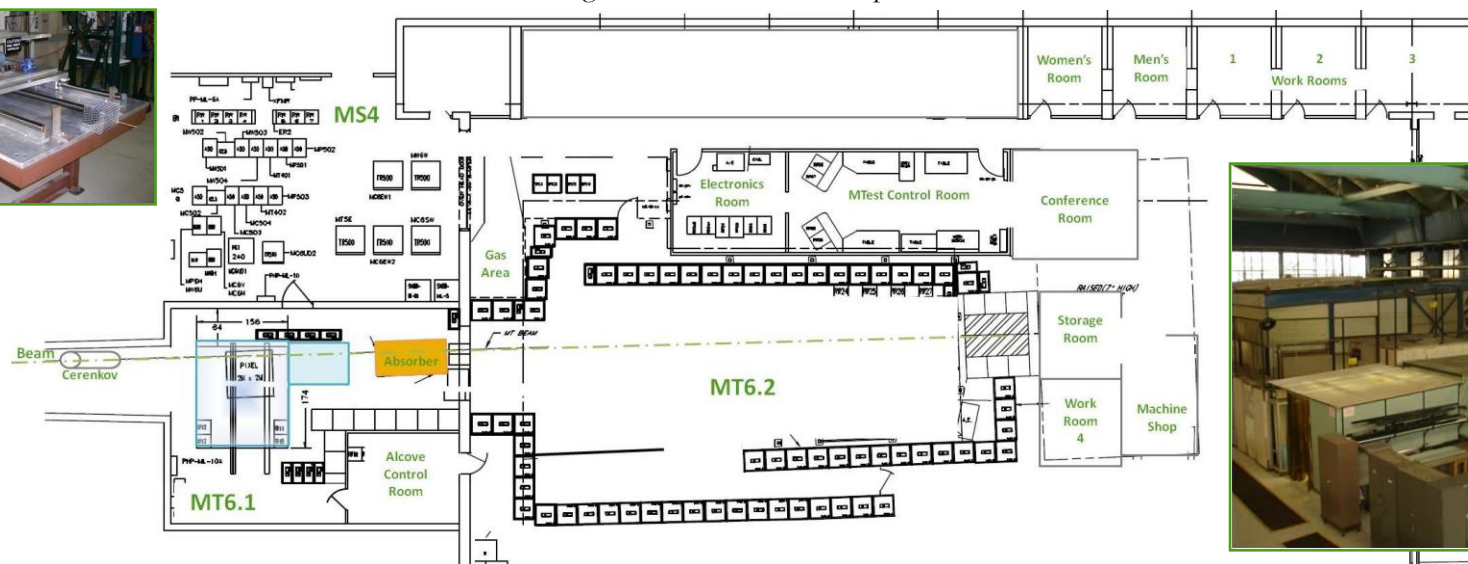
Climate controlled beam areas are also available.

PERFORMANCE

Since 2005 the Fermilab Test Beam Facility has performed 38 experiments, with 528 collaborators, from 119 institutions, in 23 countries!

SCHEDULE

If you would like to book time at the facility, the schedule and instructions on Becoming a User are on the website, or contact the facility managers listed on the next page.



For more information on the Fermilab Test Beam Facility see our website at: <http://www-ppd.fnal.gov/FTBF>