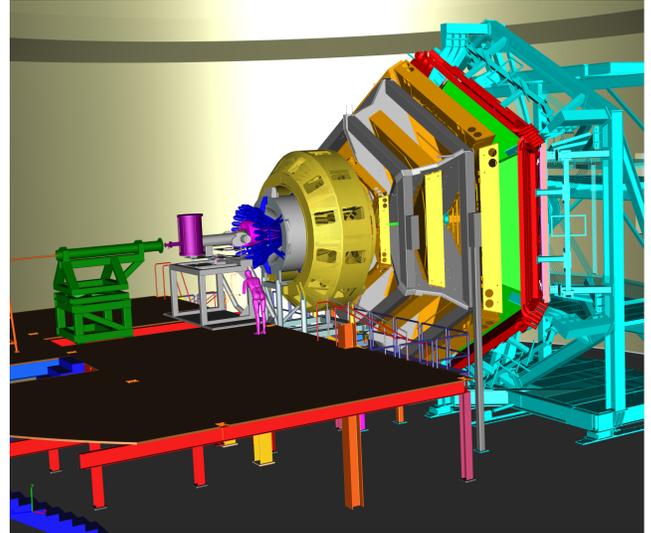


CLAS12 – Infrastructure

The **CLAS12 Infrastructure** has been updated to support the CLAS12 detectors. A new platform called the subway was added to the spaceframe to support the solenoid magnet, central detectors, and HTCC.

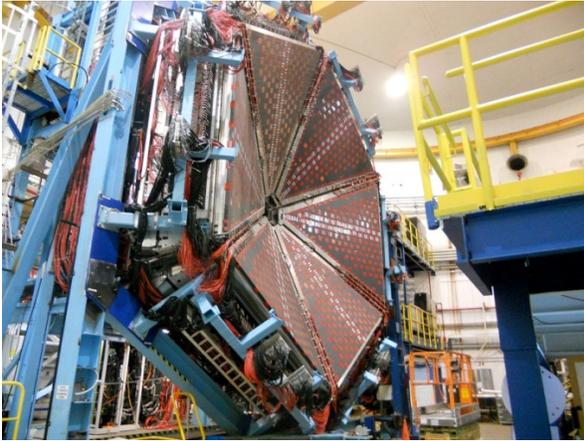
Additional mounts have been installed on the Forward Carriage to support the new forward detectors and the Forward Carriage itself has been strengthened to support the new detector loads.

A new cryogenics system has been added to supply the magnets and target.



Infrastructure - TECHNICAL PARAMETERS

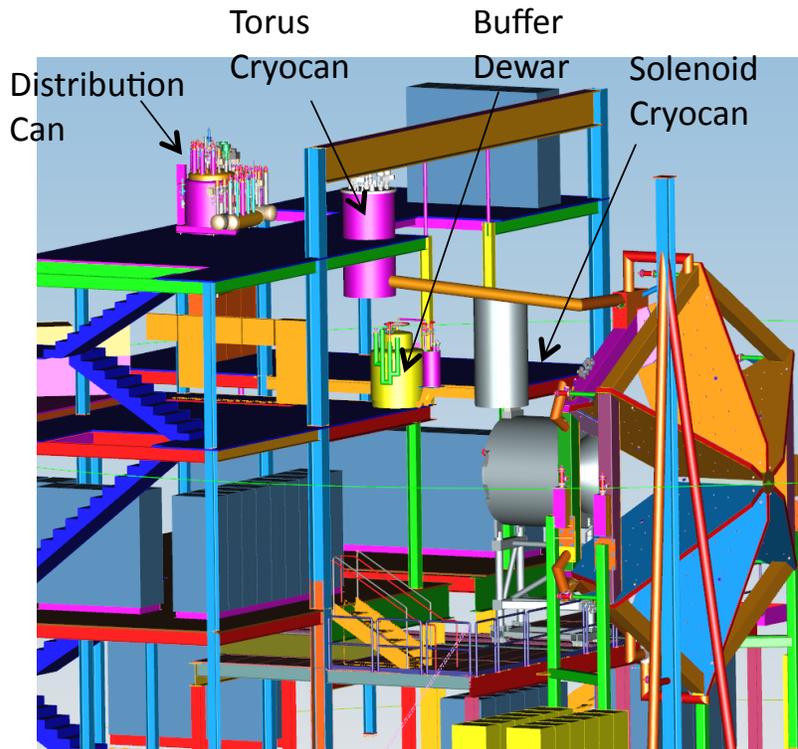
PARAMETER	DESIGN VALUE
Subway Addition	
Size	38 feet x 11 feet
Purpose	Support Solenoid, Central Detectors, and HTCC
Solenoid Rail Capacity	34 tons
HTCC Rail Capacity	5 tons
Forward Carriage Modifications	
Detector Supports	Add 8000 lbs. of steel for detector supports
Motion System	Support and move Forward Carriage on 5 Hilman rollers
Low Conductivity Water	Provide cooling water for components in the Hall
Fire Suppression System	Update based on combustible material in the Hall for CLAS12
Cryogenics	Provide liquid helium and liquid nitrogen for magnets and targets



Forward Carriage



Subway



Cryogenics System

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