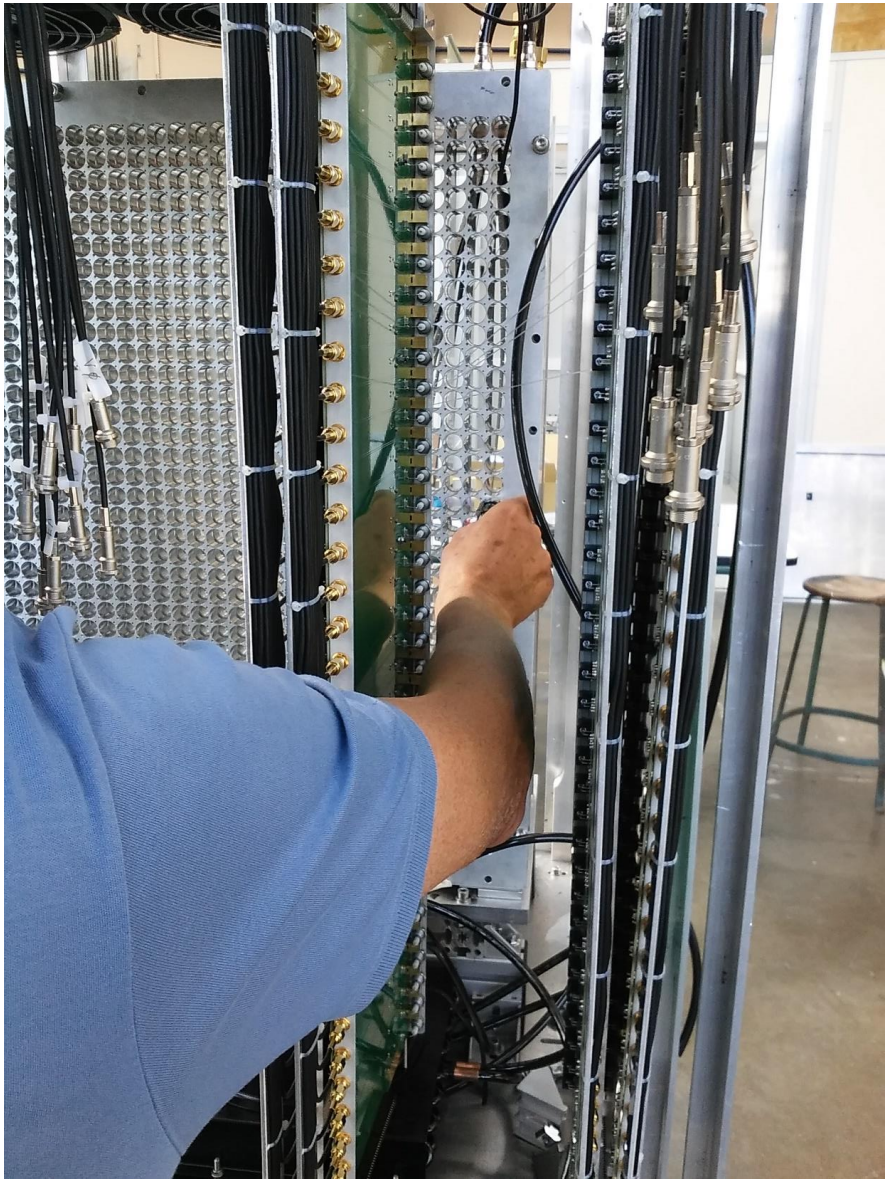
PCB boards assembly

5 boards fully cabled and tested (as of 9/22)

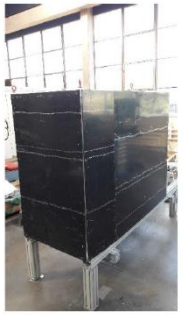
PCB cabling



Shipping preparations

Colis A – Box – 500 kg – Boite en contreplaqué environ 200x110x165 cm à réaliser. Contenu 500 kg.

Box ouverte.
Équipement calé, vissé
et sanglé dans la box.



Box équipée fermée telle qu'elle sera envoyée.
Le châssis sous la box ne fait pas partie de l'envoi.
Dimensions de la box avec les plaques noires :
174x89x135 cm
Dimensions hors tout avec vis, anneaux et poignées :
180x90x144 cm – 500 kg

Colis B – Accessoires - Boite en contreplaqué 100x100x100 cm à réaliser. Contenu 108 kg.

Outillage tests.
54x47x26 cm - 10 kg

20 PMT.
20x20x20 cm – 1 kg

Câbles LED.
35x35x13 cm – 15 kg
2 boites

Câbles HT.
49x35x18 cm – 17 kg
2 boites

Plaques Mu-métal.
93x13x13 cm – 18 kg
2 boites

Scintillateurs.
85x60x30 cm – 22 kg

Fibres optiques.
85x60x30 cm – 3 kg

Tedlar.
18x12x8 cm 2 kg

Accessoires divers.
85x35x35 cm – 20 kg

Colis C – Chiller Kodiak RC006.

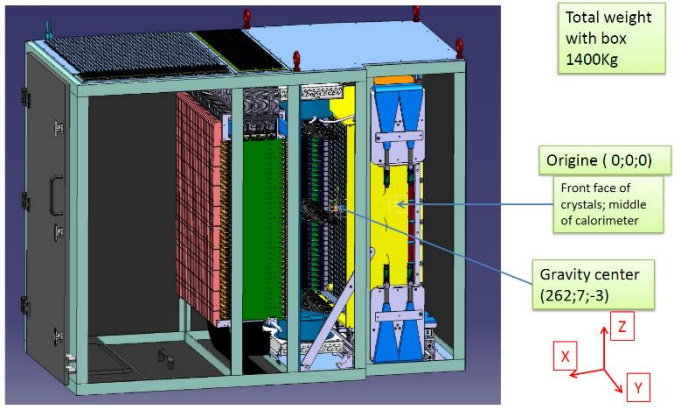
Carton :
80x45x67 cm - 44 kg
Palette :
85x56x13 cm
Hors tout :
85x56x80 cm – 52 kg

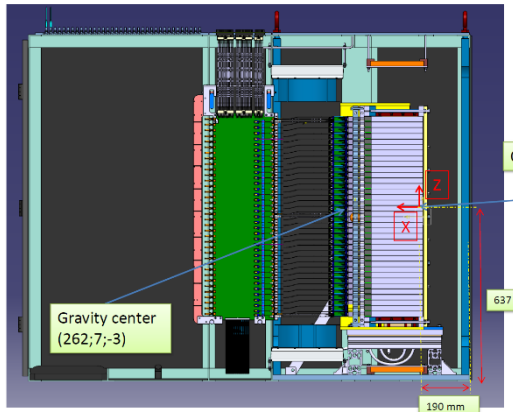
Colis D – Chiller Kodiak RC011.

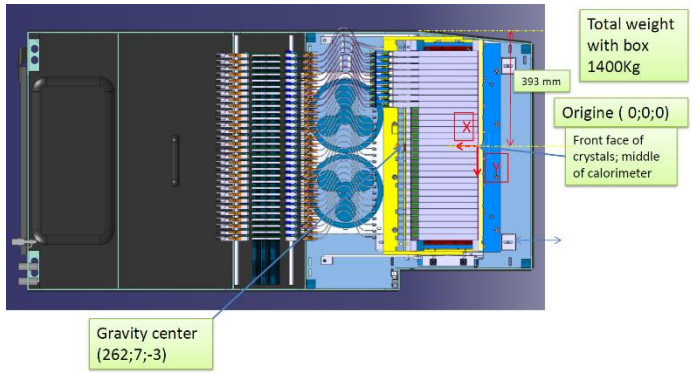
Carton :
95x52x77 cm - 55 kg
Palette :
100x56x13 cm
Hors tout :
100x56x90 cm – 64 kg

Minor points

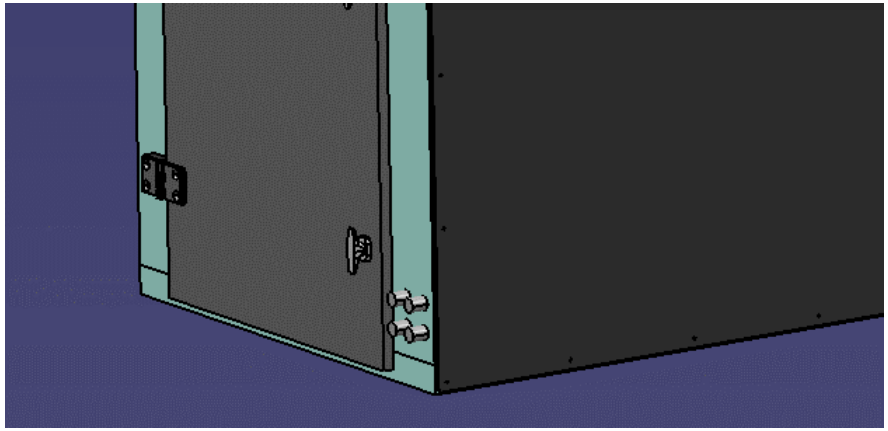
Center of gravity (+ latest STEP) sent to Paulo



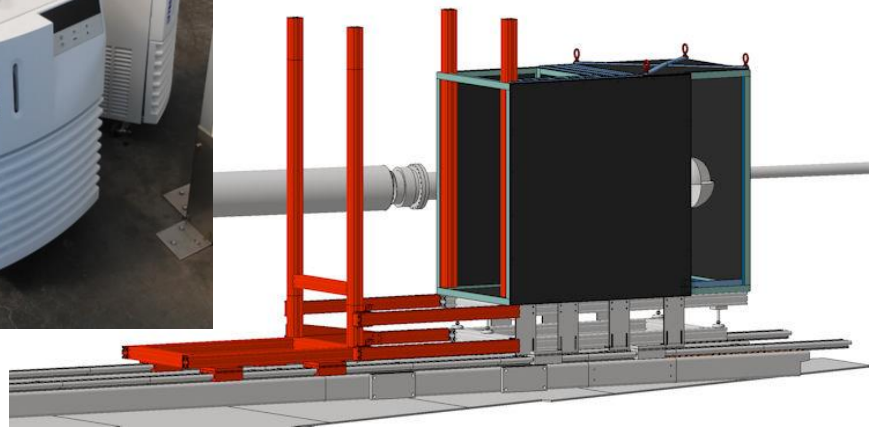




Position of cooling water I/O? (interferences)



Position chillers?
(proximity vs radiation damage)



NPS simulation code & documentation

https://wiki.jlab.org/cuawiki/index.php/Documents#NPS_Geant4_simulation_for_Hall_C_DVCS

NPS Geant4 simulation for Hall C DVCS

GitHub: use DVCS_evt_gen/.

A very short User Guide.

Neutral Particle Spectrometer Geant4 Simulation Guide for Hall C DVCS

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[1]Laboratoire de Physique des 2 infinis Irène Joliot-Curie

September 27, 2020

This document is a short guide on how to run a Neutral Particle Spectrometer (NPS) Geant4 simulation with a DVCS event generator and a photon reconstruction software. There are also short descriptions of the necessary classes. Currently, the kinematic setting exists only for the proposed Hall C DVCS. For any questions or comments, please send an email to hosanko@jlab.org.

Contents