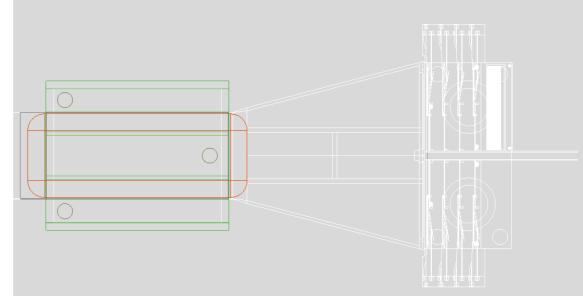
Update on LUXE GEANT4 Simulation

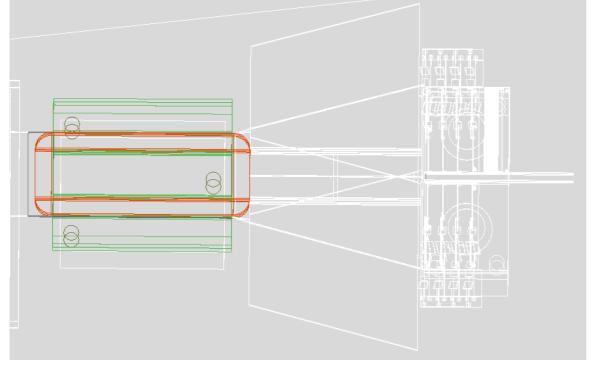
Oleksandr Borysov

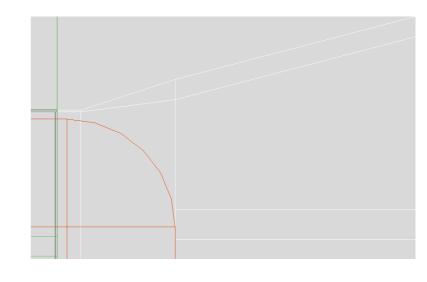
LUXE Technical Meeting December 1, 2021

GDML export in G4 v10.7.2 with VecGeom

- Exporting G4 geometry to gdml in NAF using G4 v10.7.2 with VecGeom;
- (/cvmfs/sft.cern.ch/lcg/views/LCG_101)
- G4 v10.6 also does not work for another G4Assembly related problem.
- Importing GDML to G4 does not look reasonable;
- The x size of the G4Para equals to its z size in gdml file (export related problem).







Reporting the problem

	orting G4UPara to GDML 🖉		
	sqytau Dear Experts,	2h	
	The problem came when I exported the geometry to g which uses Geant4-10.7.2 with VecGeom probably. The installation (without VecGeom) which uses G4Para we to gdml via G4UPara equals to its Z size: G4double G4UPara::GetXHalfLength() const	he problem seems to be in G4UPara as my local]
	{ return GetZ(); } It looks like it is also like this in 10.7.3:	 gcosmo () You should report this in the Problem reporting system: Log in to Bugzilla/Geant4 (1) 	1h
		Solution 🛇 🔗 🚥	s Reply
60	SEANT4	Oleksandr Borysov 2021-11-24 09:48:34 CET	Description
Home	la/Geant4 – Problem 2446 New Browse Search Search em 2446 - G4UPara::GetXHalfLength()	A possible way to demonstrate the problem is to export G4Para to gdml fi internally G4UPara is used (probably when compiled with VecGeom), e.g. /cvmfs/sft.cern.ch/lcg/views/LCG 101. The X size of the G4Para exported to gdml via G4UPara equals to its Z si G4double G4UPara::GetXHalfLength() const { return GetZ(); }	

Gabriele Cosmo 2021-11-24 11:19:25 CET

Comment 1

Thanks for the report. The fix is now submitted to the development master and will be included in next release.