

v.15.23.15
09/17/21

¹H : MC Transmission Plot - Envelope (only passed)

¹H (358.49 MeV/u) + Be (1e-4 μm); Transmitted Fragment ¹H (beam); Optics Order: 1
dp/p=5.07%; Wedges: 0; Brho(Tm): 3.0000, 3.0000, 3.0000, 3.0000, 3.0000....

AngAccept: ON; Bounds: Off; "i250" - last block for MC calc; no gates; Config: D.....

Initial conditions

A	Element	Z	q	Table of Nuclides
1	H	1	1	Stable

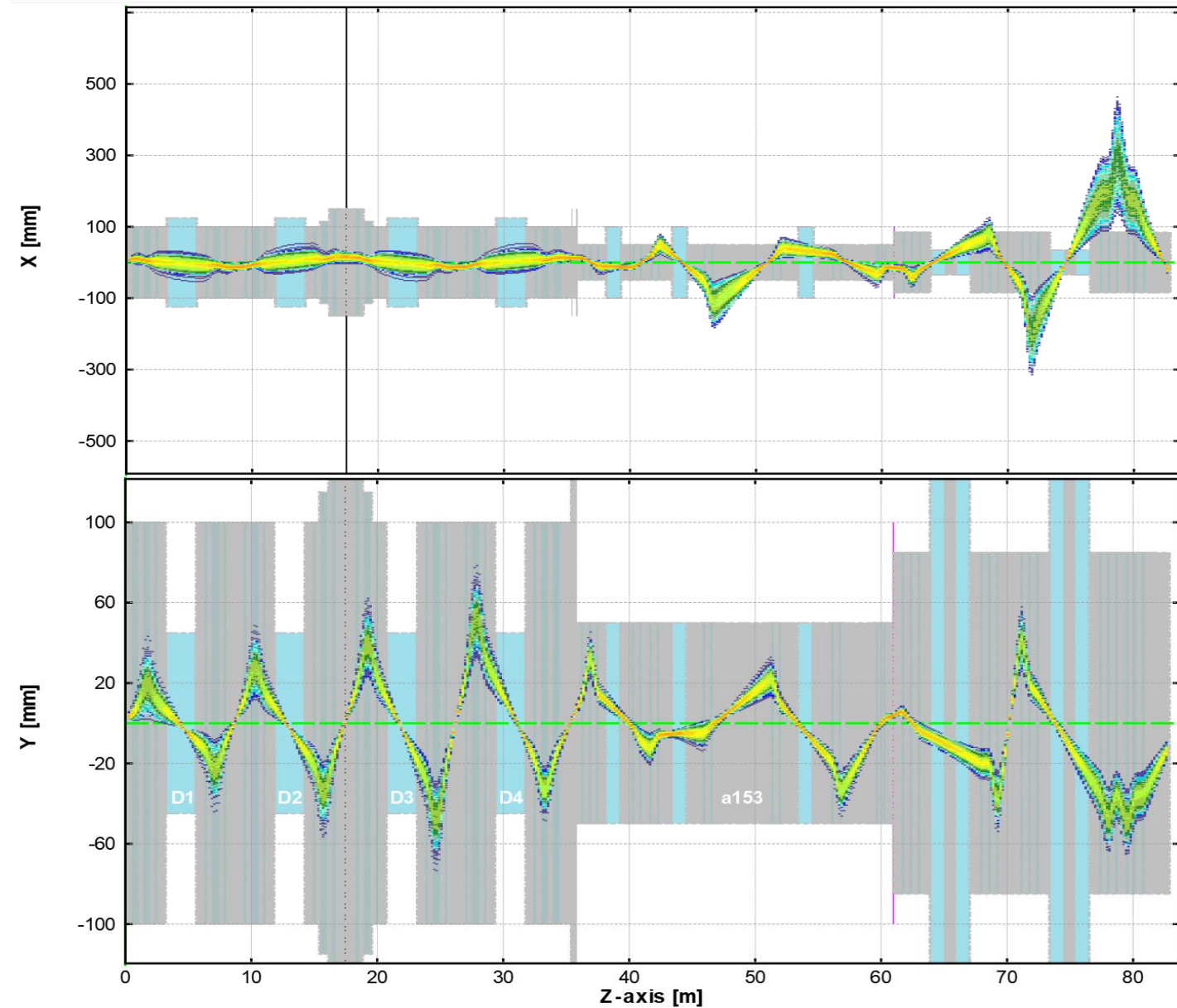
Emittance [#1]	Beam CARD (sigma, semi-axis, half-width...)	1D - shape (Distribution method)	2D mode	2D - shape (Monte Carlo method)	Correlated with
1. X mm	1	Gaussian	<input type="checkbox"/>		
2. T mrad	6	Gaussian	<input type="checkbox"/>		
3. Y mm	0.2	Gaussian	<input type="checkbox"/>		
4. P mrad	2	Gaussian	<input type="checkbox"/>		
5. L mm	0	Gaussian	<input type="checkbox"/>		
6. D %	0.07	Gaussian	<input type="checkbox"/>		

Beam energy	Beam intensity
Energy: 358.4862 MeV/u	<input type="radio"/> 1 enA
TKE: 361.095 MeV	<input checked="" type="radio"/> 1 p nA
Brho: 2.99837 Tm	<input type="radio"/> 6.24e+09 pps
P: 0.8989 GeV/c	<input type="radio"/> 0.00036 kW
U: 3.61e+05 KV	

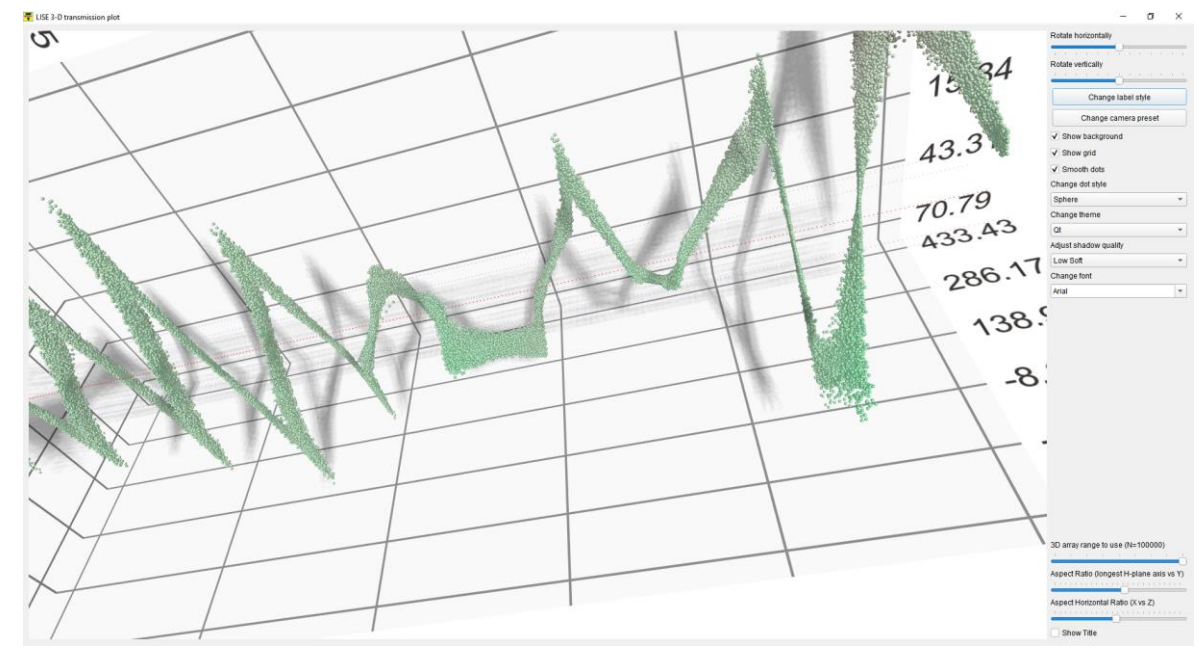
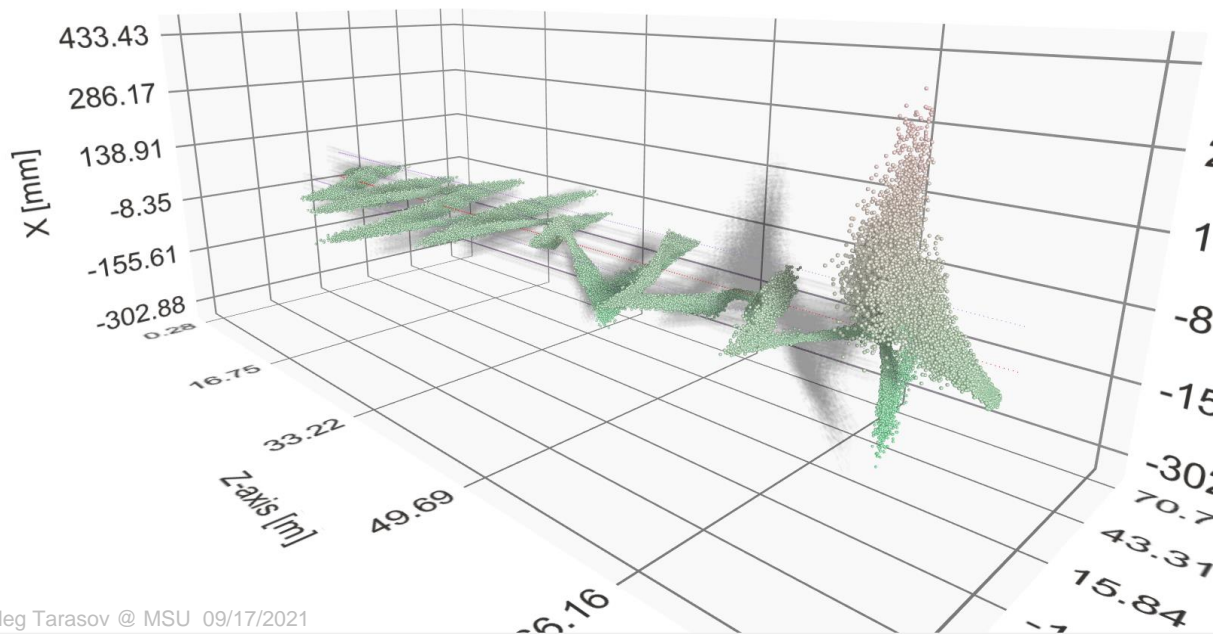
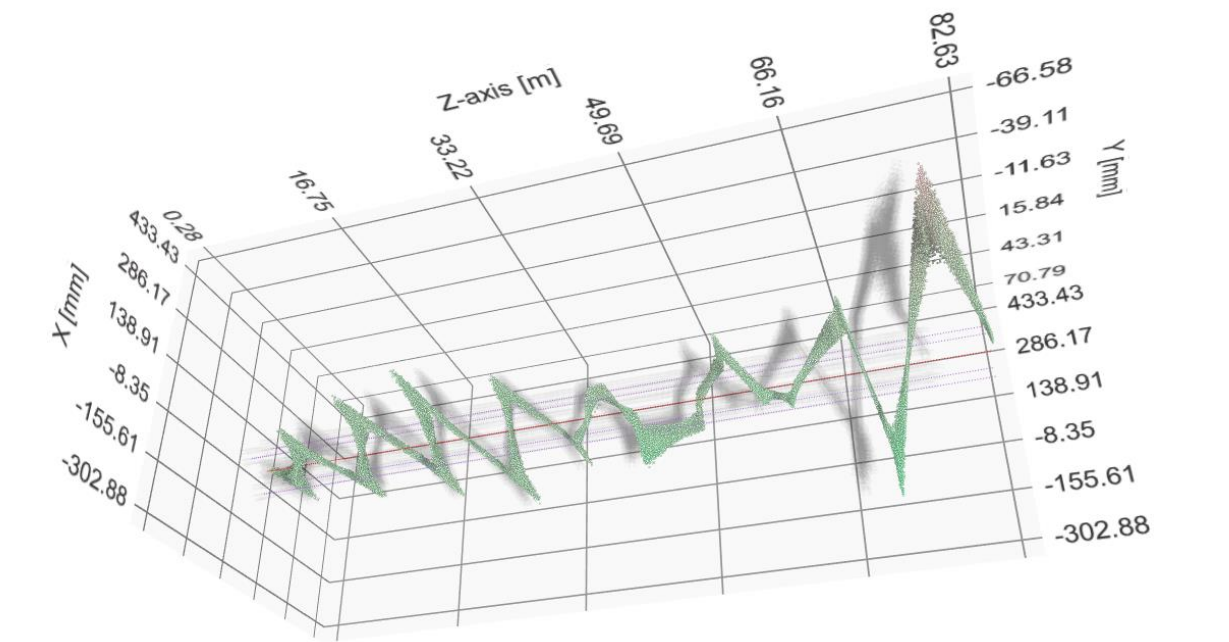
Power Loss in the target box	4.748e-14 kW
RF frequency	20 MHz
Bunch length	1 ns

Beam Sigma Vector [#2] used in the "Optics Optimization" procedure

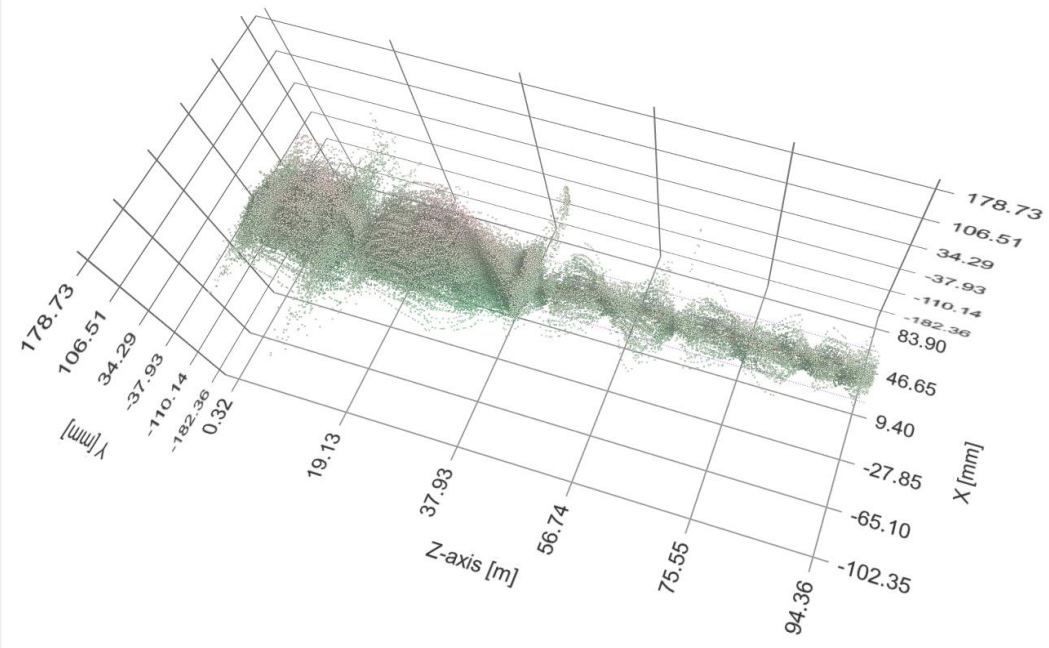
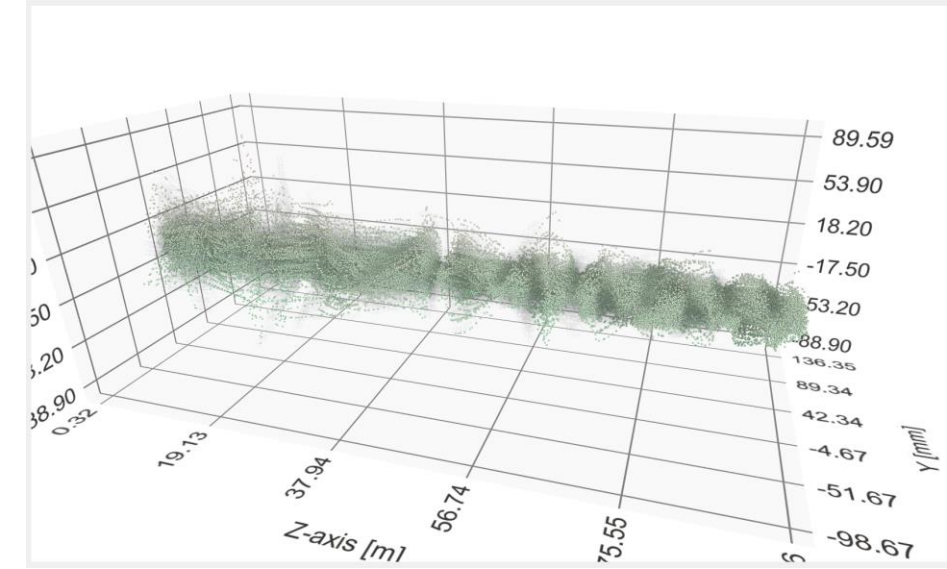
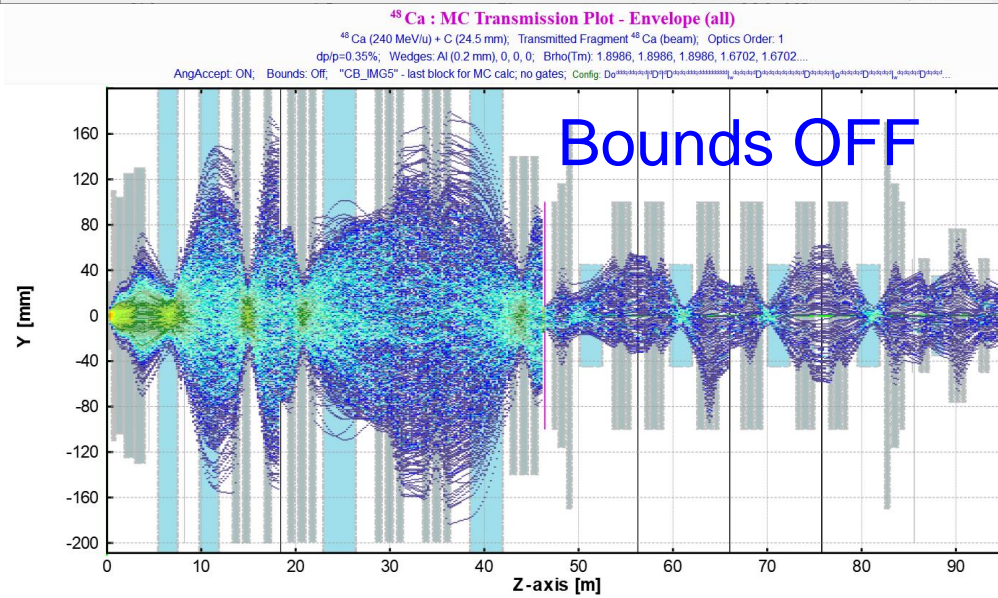
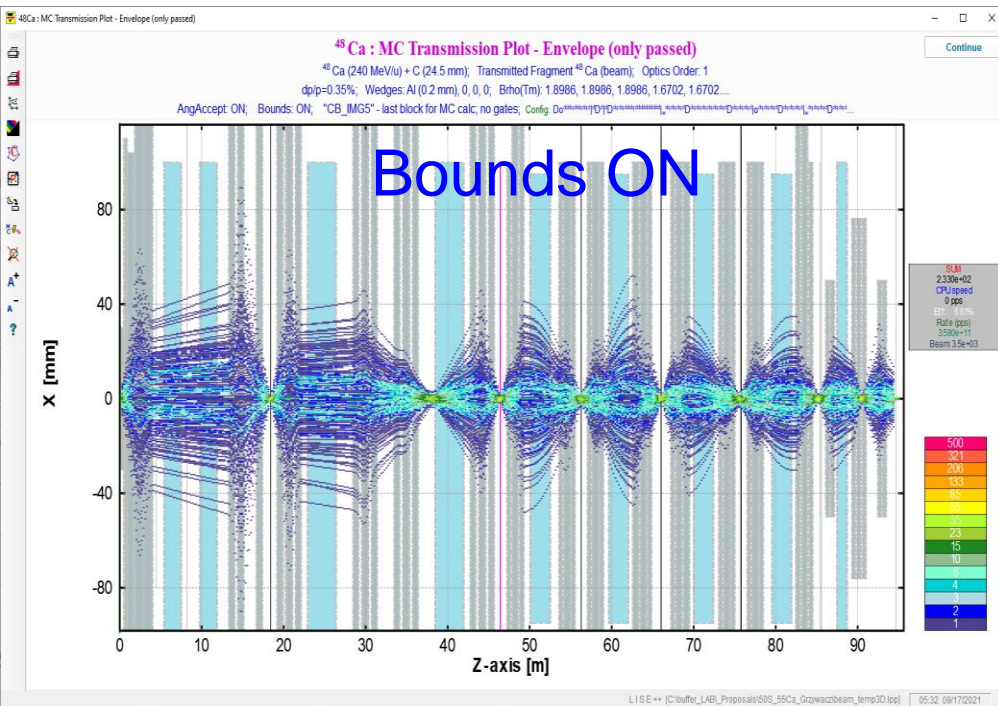
See next slide for 3D



3-D Monte Carlo Envelope plot

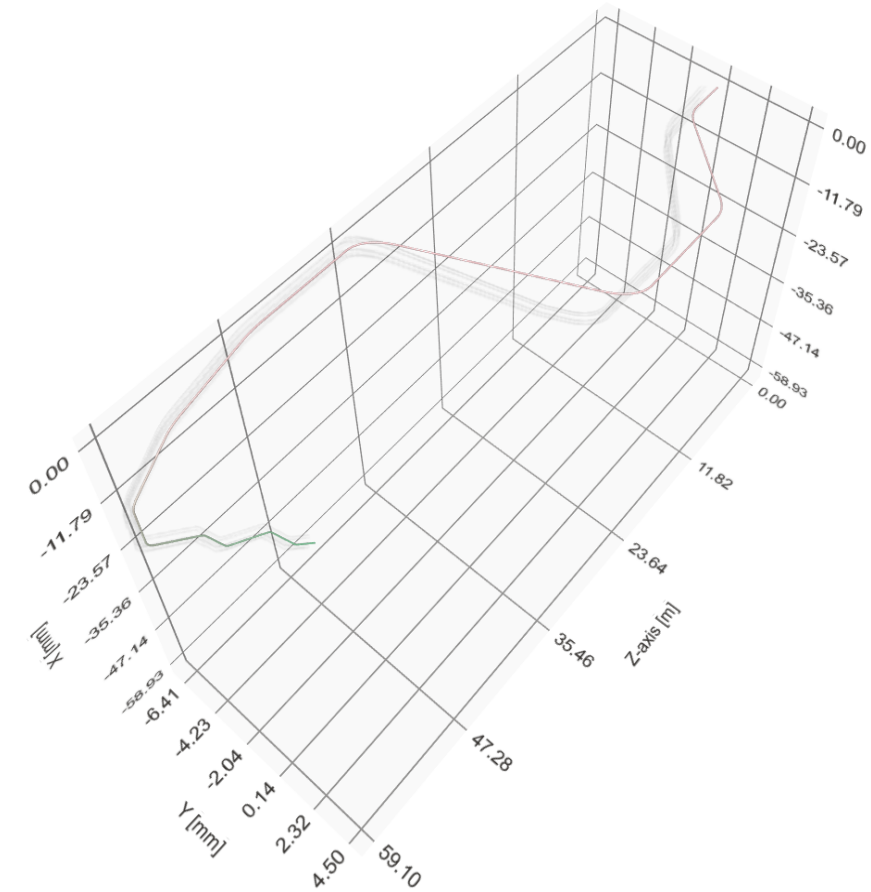
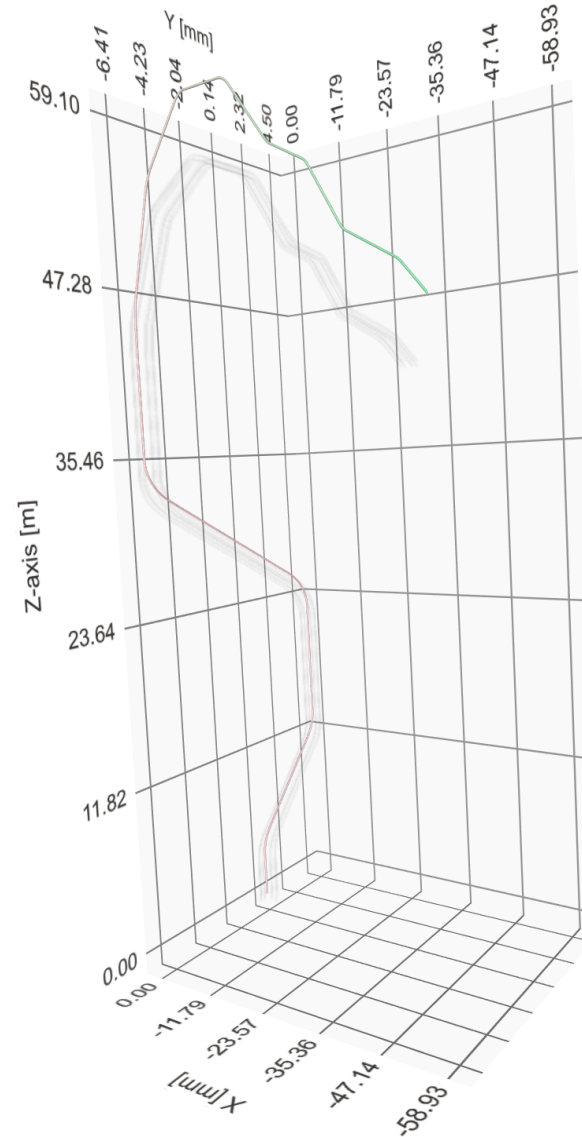
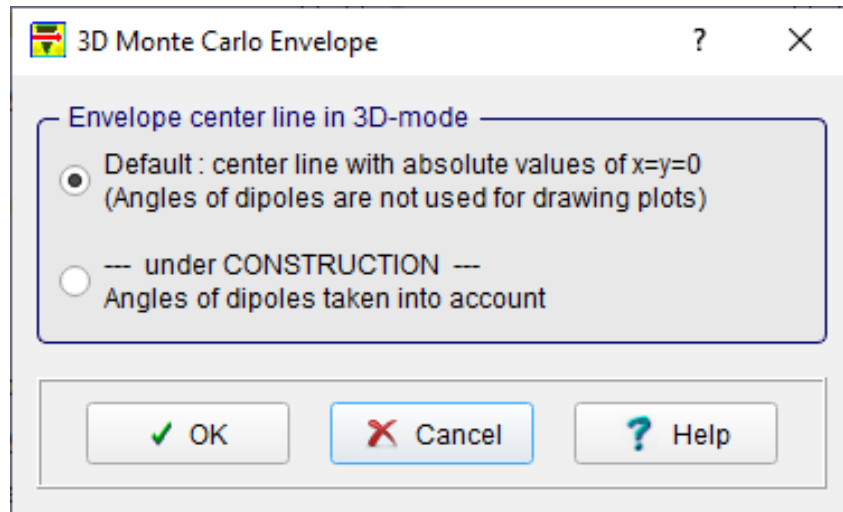


3-D Monte Carlo Envelope plot



Under construction!!

if 3D X-Y-Z combination is
 “Envelope-X(mm)-Y(mm)”
 then the next dialog will appear
 after running MC calculation



ARIS + transfer hall