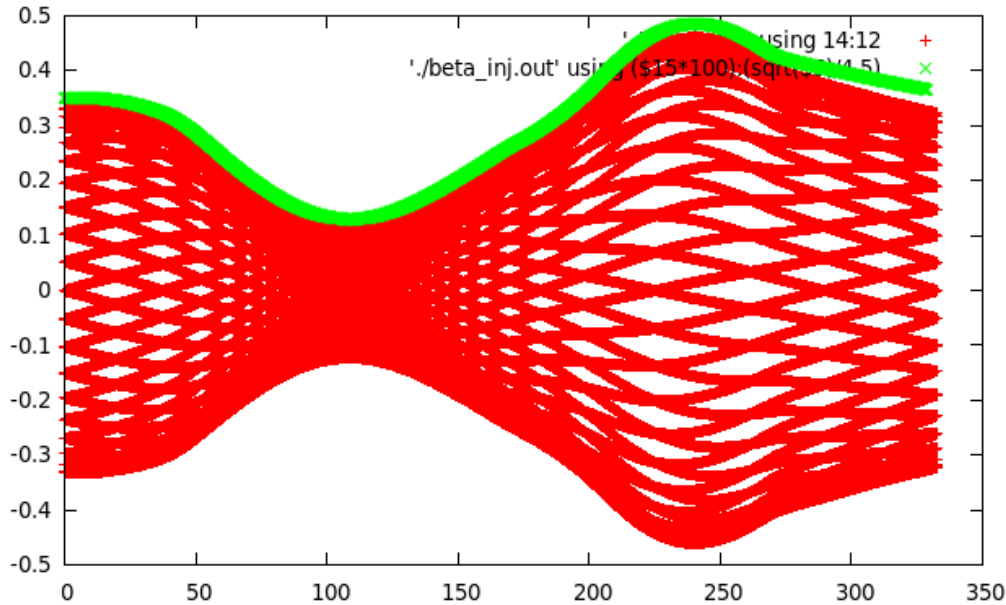
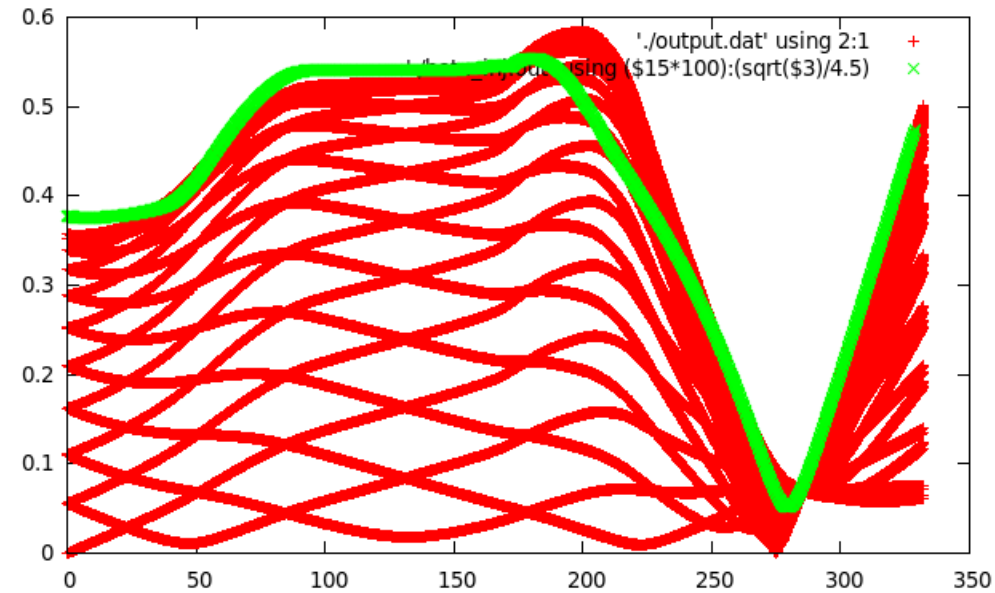


# Updates on zgoubi simulations:



Vertical beam envelope

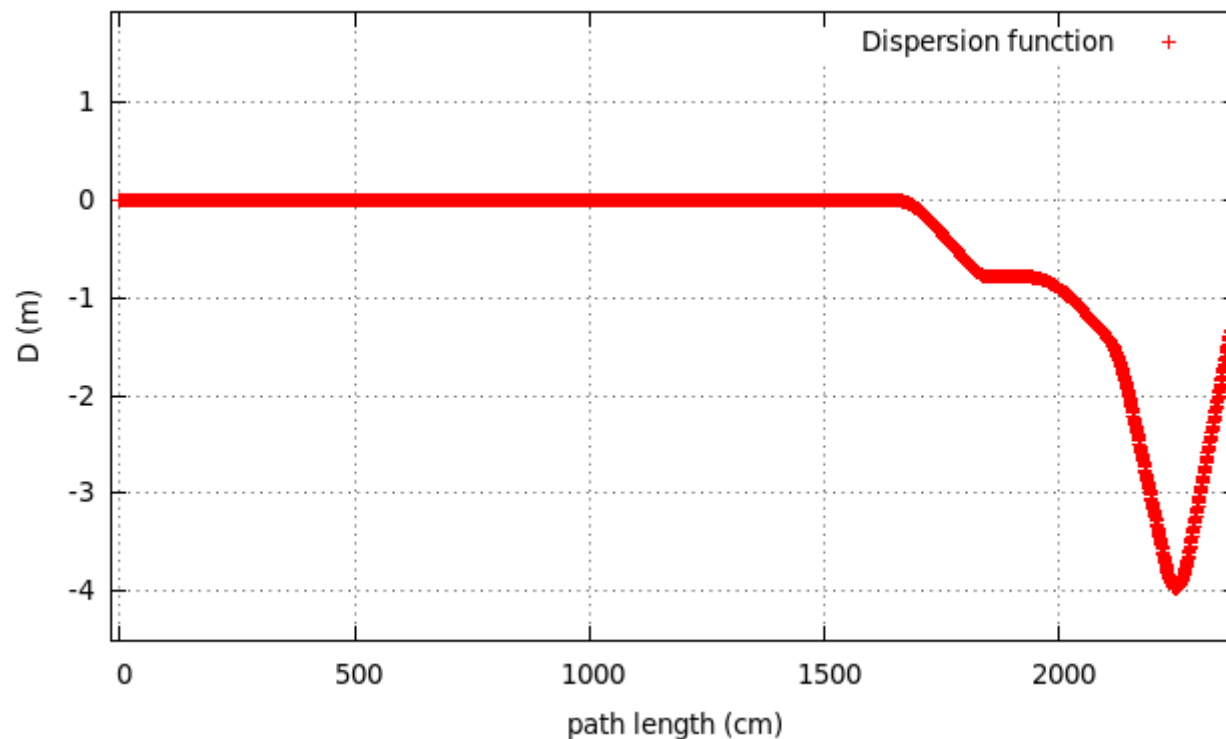


Horizontal beam envelope

- Changed for tracking calculations from Zgoubi's "TOSCA" (3D) keyword to "POLARMES" (2D) keyword, which now yields better agreement with KURRI party
- So far we do not understand the origin of this problem: the element "TOSCA" is being used in many other problems.
- Our plan : check the derivatives from "TOSCA" and "POLARMES"

# Dispersion

- The dispersion function along the injection line agrees with MADX and SAD calculations.



Work in progress..