

# Magnetic Horn Study for the NuFact

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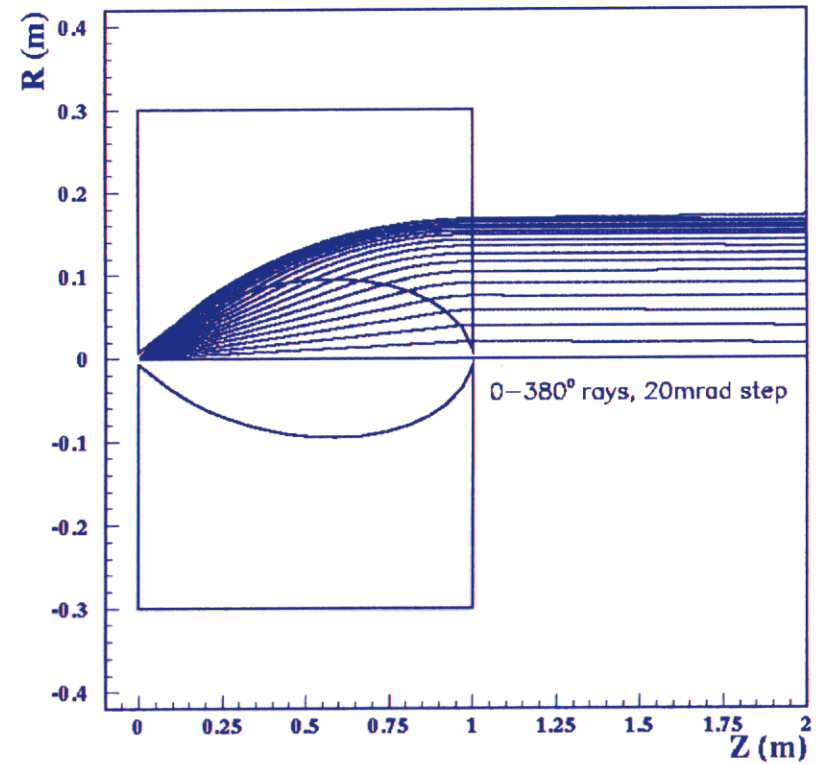
Nikolaos Vassilopoulos

*v-factory 2000*

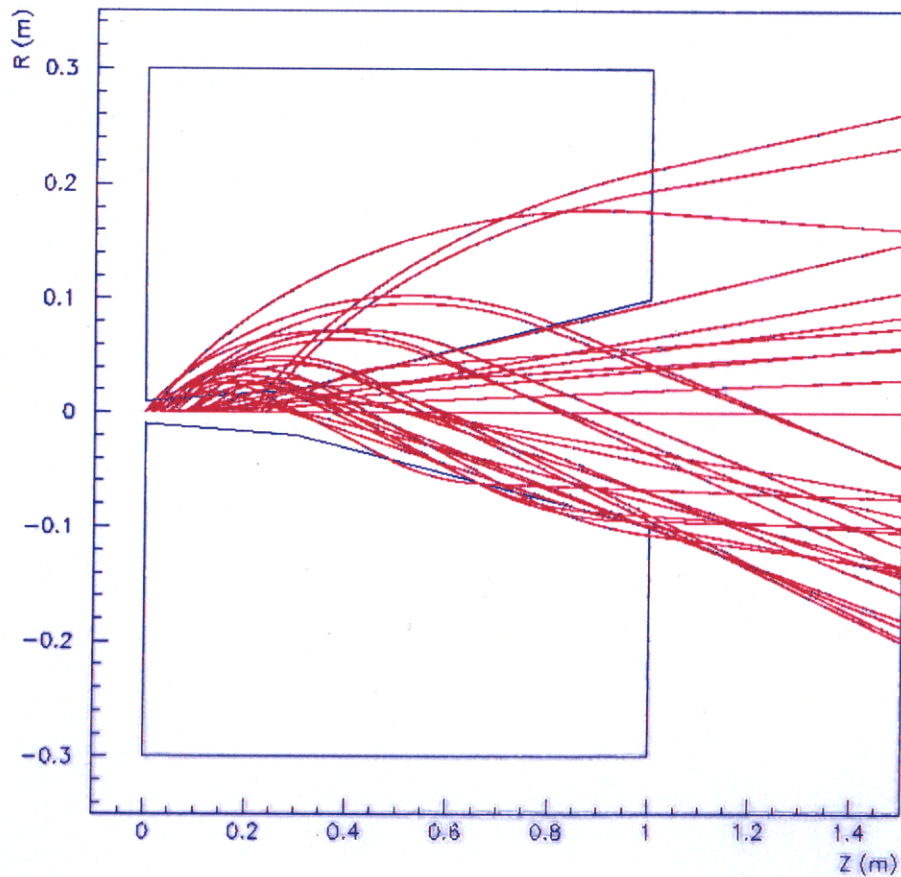
# The Horn: vote for it!!!



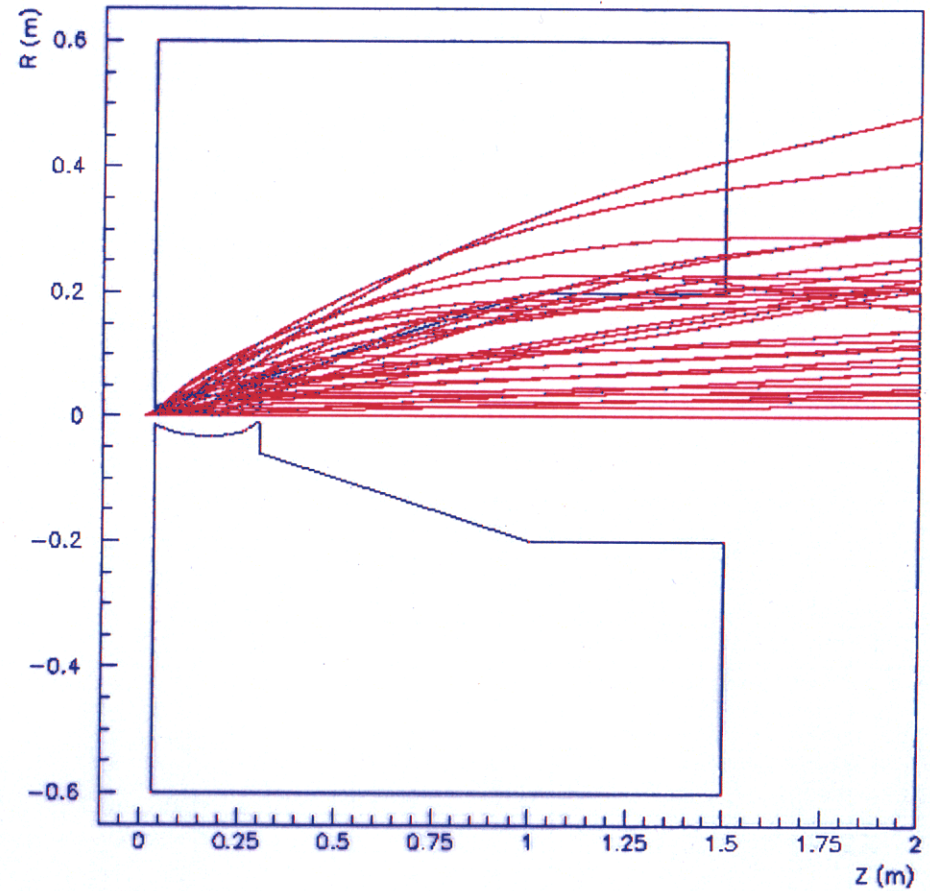
H200,  $I = 150 \text{ kA}$ ,  $\alpha = 380 \text{ mrad}$



# New horns




Triangular 300 kA



S 300kA

# Conclusions

Number of  $\pi^+$  for 2 GeV proton per  $2 \lambda_i$

Radius < 30 cm Y > 1	 Arbitrary Units		
	S 300	T 300	Solenoid
After match	9.6	11.5	8.6
After 1 m	7.2	9.9	7.3

Future works includes C targets, material simulation