

- Systematically study the eloss package for G14
- Study the dependence of energy loss dependence on various factors
- Trying to solve the puzzle of multiple bands of eloss vs. momentum

イロト イポト イヨト イヨト



- Proton and π^- are generated with random momentum, θ, ϕ
- Vertex Zs are fixed at 7 positions: -10.5, -9.5 ... -4.5
- Energy loss vs. momentum and θ are shown

◆□ > ◆□ > ◆臣 > ◆臣 > ─臣 ─のへで

Vertex Z at -10.5



Energy loss vs. θ and momentum of π^- with vertex Z at -10.5

H Lu G12 Eloss

★ロト★個と★注と★注と、注

Vertex Z at -9.5



Energy loss vs. θ and momentum of π^- with vertex Z at -9.5

H Lu G12 Eloss

Vertex Z at -8.5



Energy loss vs. θ and momentum of π^- with vertex Z at -8.5

H Lu G12 Eloss

Vertex Z at -7.5



Energy loss vs. θ and momentum of π^- with vertex Z at -7.5

H Lu G12 Eloss

Vertex Z at -6.5



Energy loss vs. θ and momentum of π^- with vertex Z at -6.5

H Lu G12 Eloss

Vertex Z at -5.5



Energy loss vs. θ and momentum of π^- with vertex Z at -5.5

H Lu G12 Eloss

Vertex Z at -4.5



Energy loss vs. θ and momentum of π^- with vertex Z at -4.5

H Lu G12 Eloss

★ロト★個と★注と★注と、注

 $\frac{\text{Introduction}}{\pi^{-}}$ Proton

Vertex Z at -10.5



Energy loss vs. θ and momentum of proton with vertex Z at -10.5

H Lu G12 Eloss

◆□ ▶ ◆□ ▶ ◆ □ ▶ ◆ □ ▶ ◆ □ ● ● ○ ○ ○





Energy loss vs. θ and momentum of proton with vertex Z at -9.5





Energy loss vs. θ and momentum of proton with vertex Z at -8.5





Energy loss vs. θ and momentum of proton with vertex Z at -7.5

H Lu G12 Eloss



Vertex Z at -6.5



Energy loss vs. θ and momentum of proton with vertex Z at -6.5

H Lu G12 Eloss

イロト イポト イヨト イヨト 三日



Vertex Z at -5.5



Energy loss vs. θ and momentum of proton with vertex Z at -5.5

H Lu G12 Eloss

メロト メポト メヨト メヨト 二日



Vertex Z at -4.5



Energy loss vs. θ and momentum of proton with vertex Z at -4.5

H Lu G12 Eloss