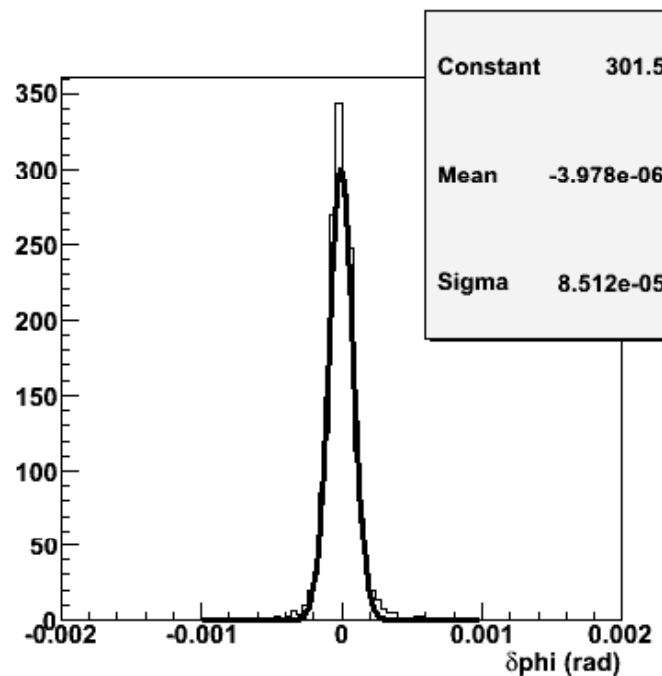
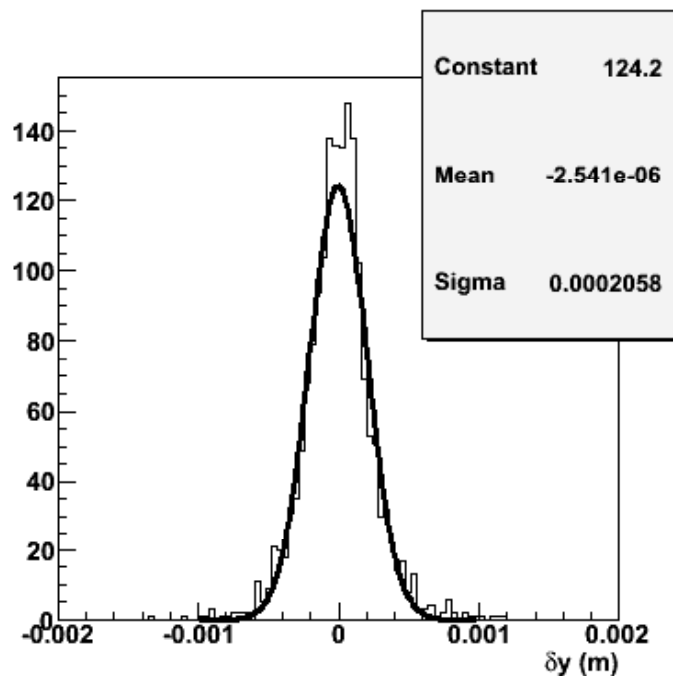
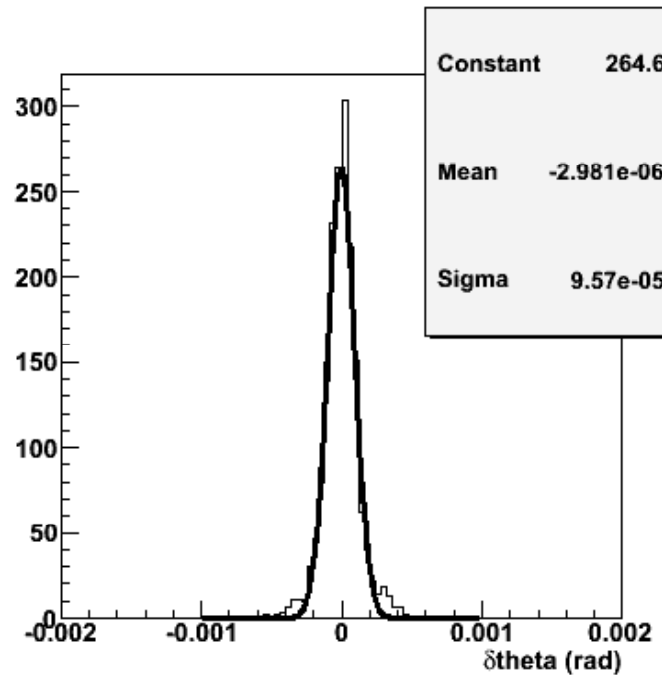
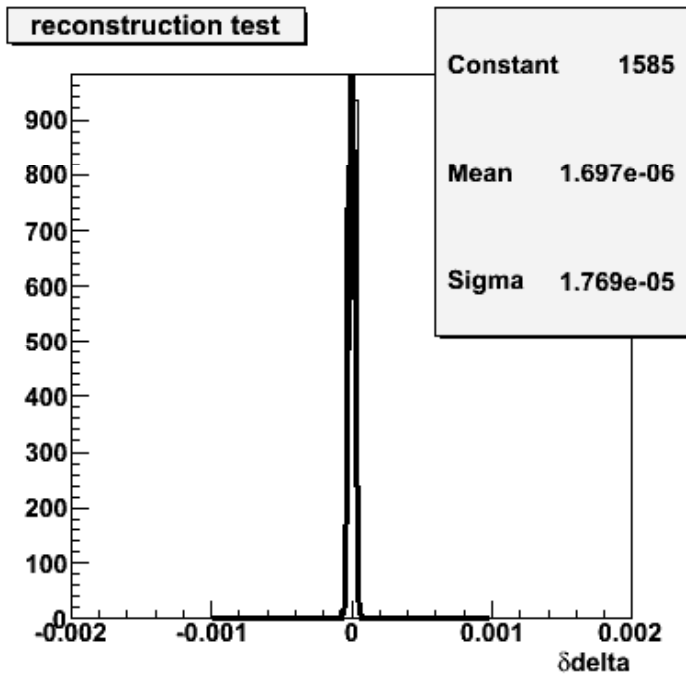


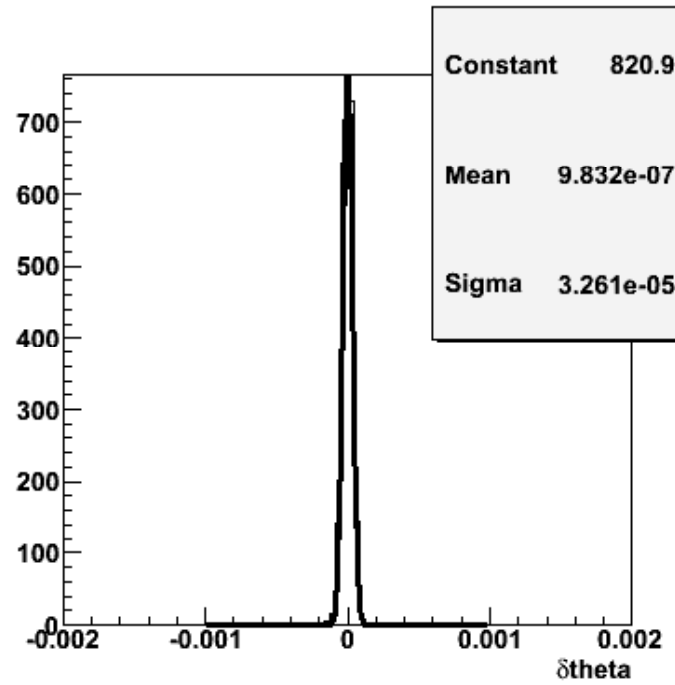
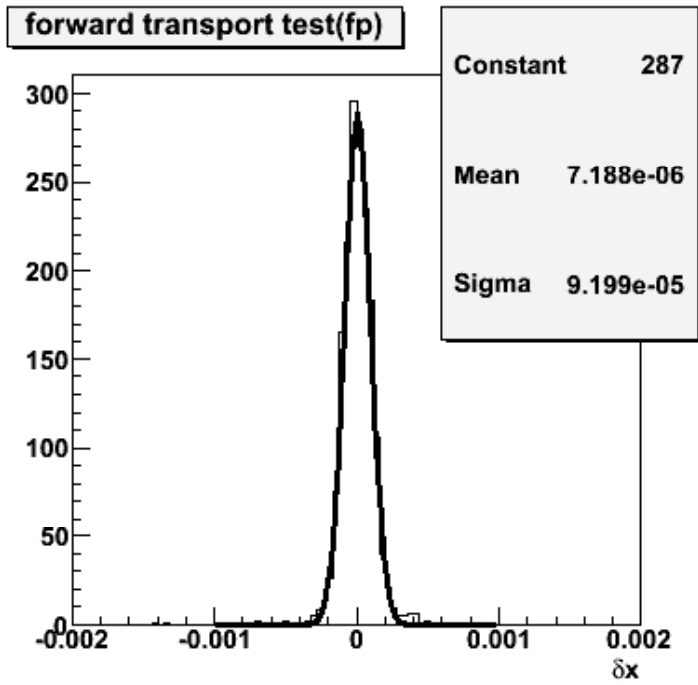


- Consistency check of SNAKE results on ifarm & transport functions from s3
  - 5.69 deg. septa, target field OFF
- Optics



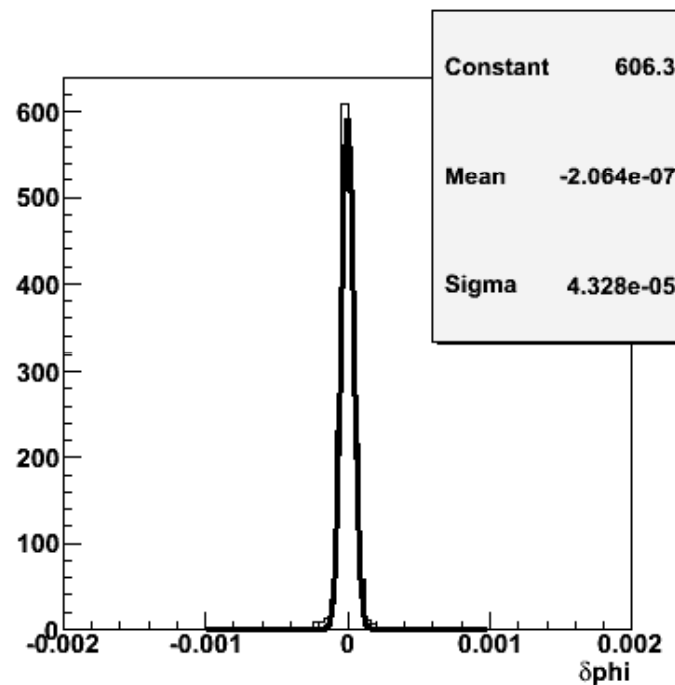
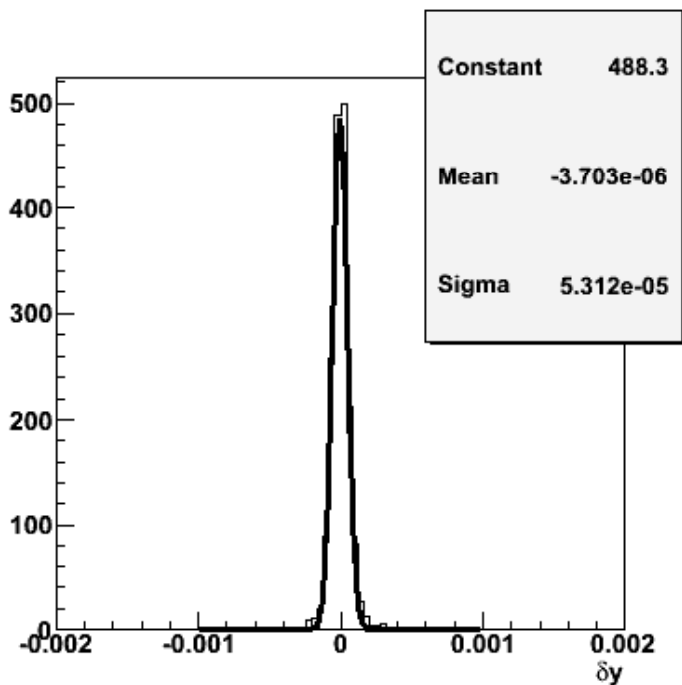
5.69 deg  
septum +  
HRS, tg field  
off

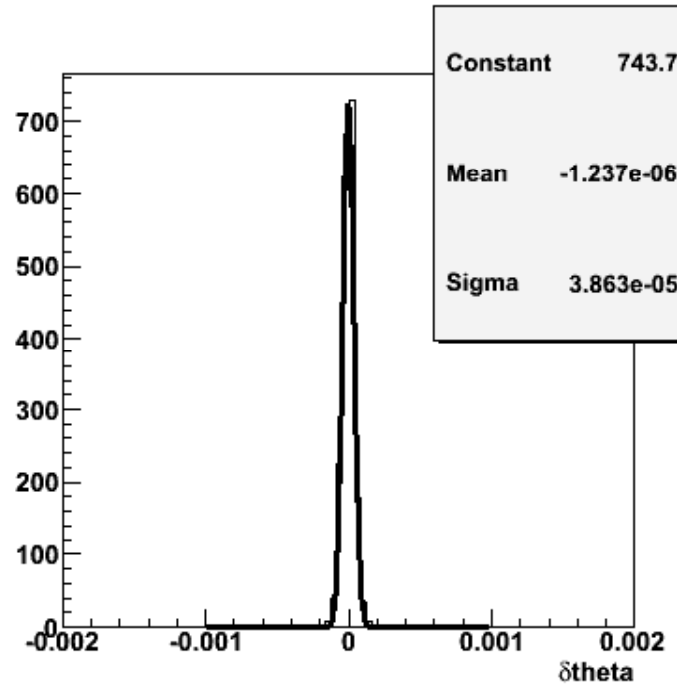
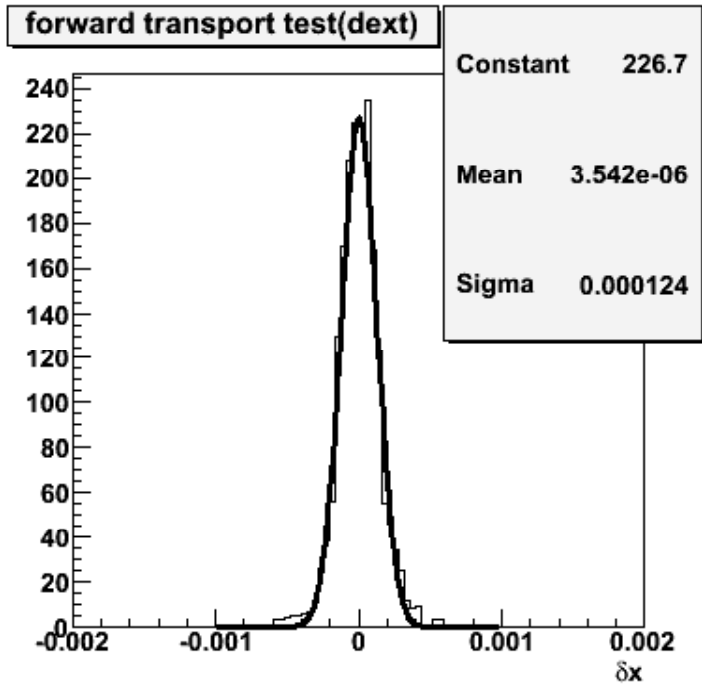
Start from  
trajectories @  
tg, forward +  
reverse  
function, plot  
the (results –  
initial values)



5.69 deg  
septum +  
HRS, tg field  
off

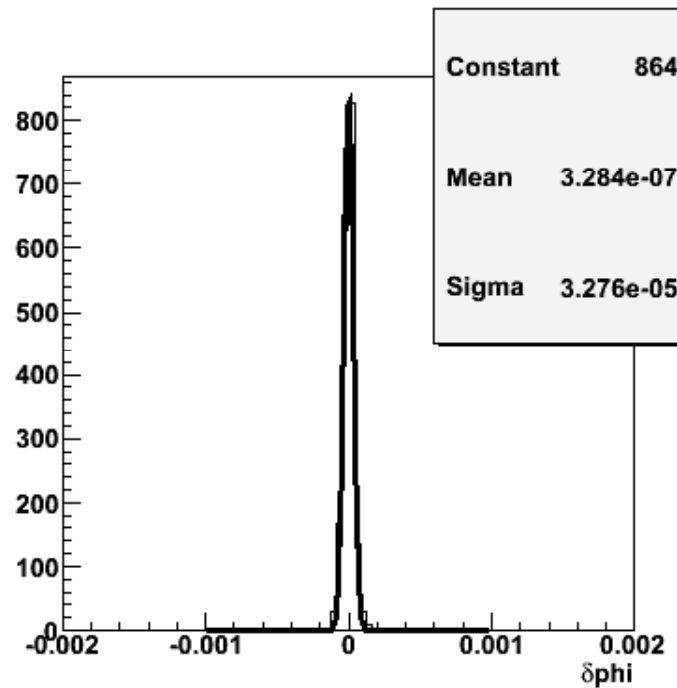
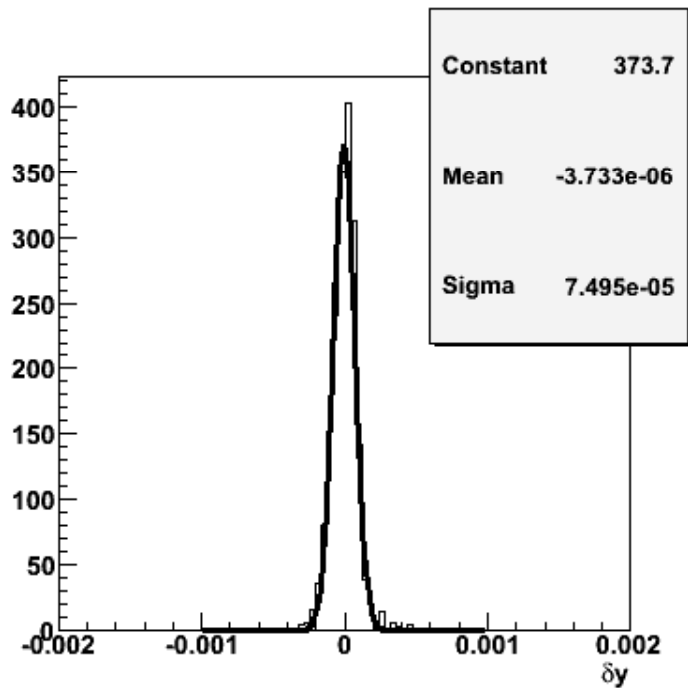
Start from  
trajectories @  
tg, only forward  
function, plot  
the (results –  
values@the  
e-p)



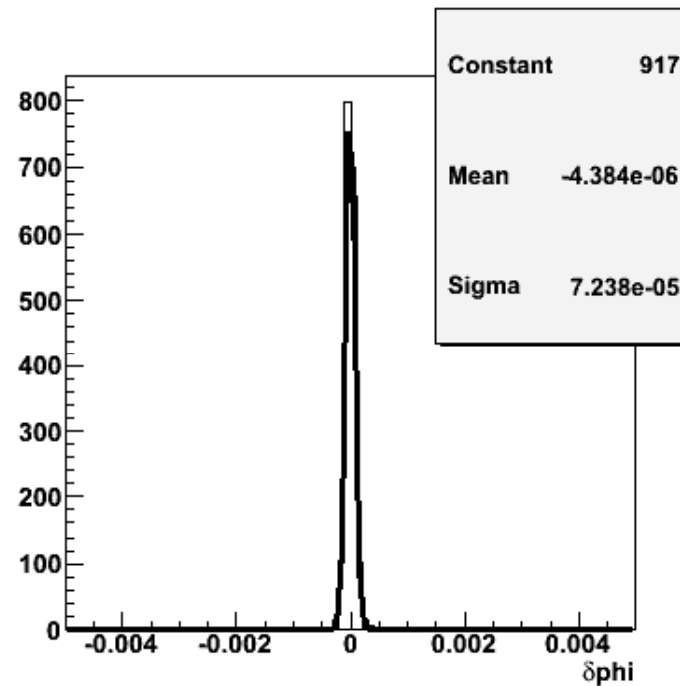
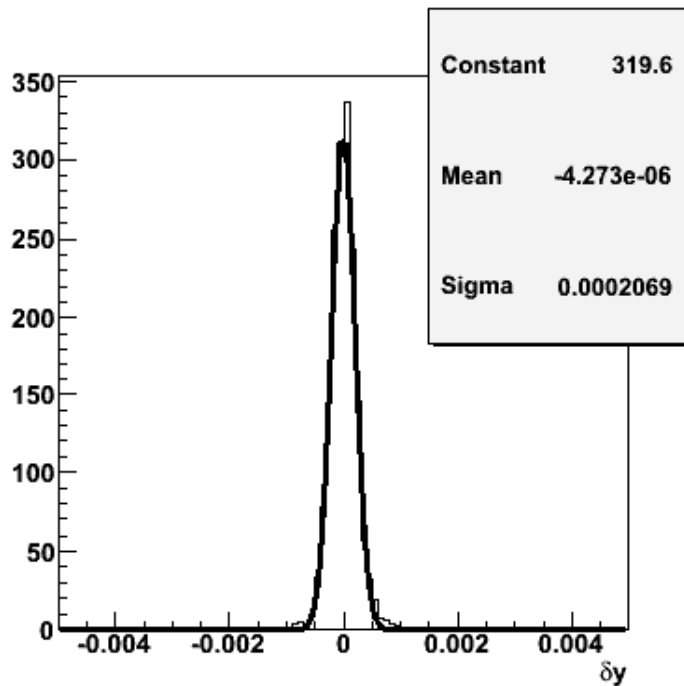
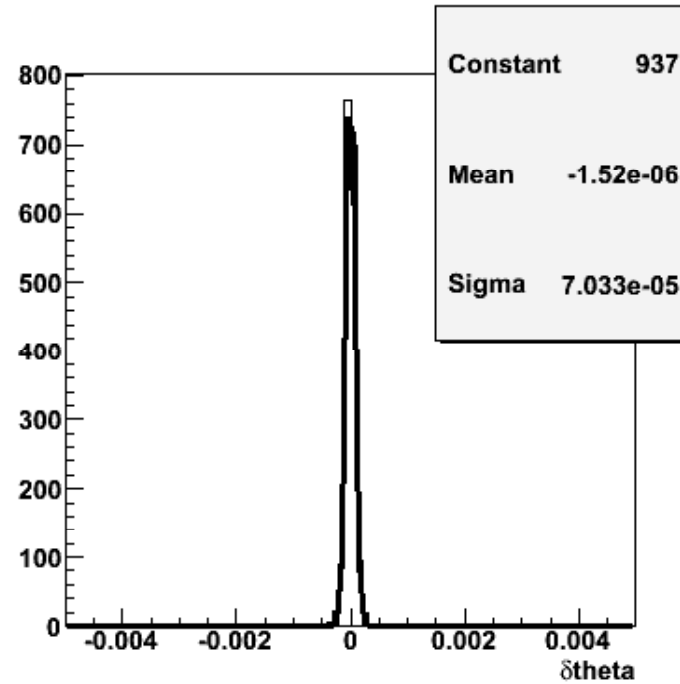
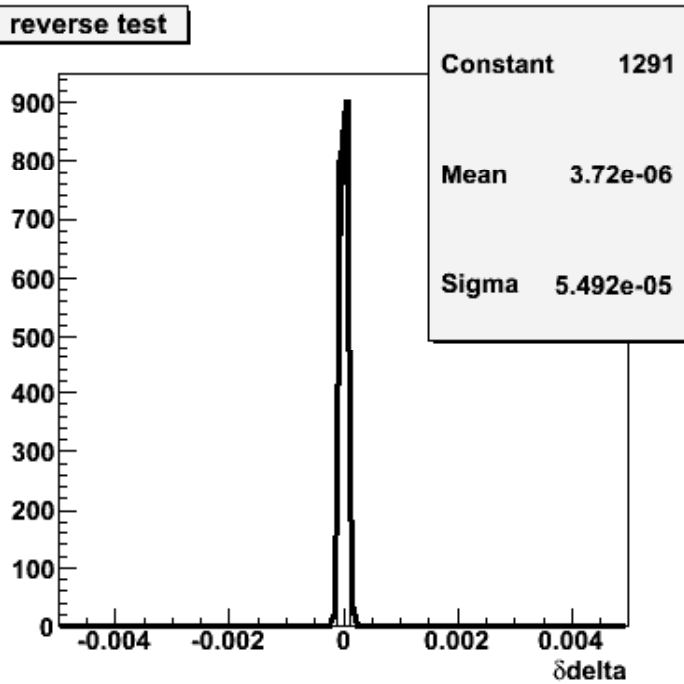


5.69 deg  
septum +  
HRS, tg field  
off

Start from  
trajectories @  
tg, forward +  
reverse  
function, plot  
the (results –  
initial values)



reverse test



5.69 deg  
septum +  
HRS, tg field  
off

Start from  
trajectories @  
tg, only forward  
function, plot  
the (results –  
values@the e-  
p)

# Optics

- Target OFF
- delta (momentum) and  $\phi_{tg}$  (horizontal angle)
  - carbon foil, sieve slits for  $\phi_{tg}$ .

- Target ON, Sieve ON

- $\theta_{tg}$  
$$E' = \frac{E}{1 + E/M(1 - \cos \theta)}$$

$$\theta_{scat} = \arccos\left(\frac{\cos(\theta_{HRS}) - \phi_{tg} \sin(\theta_{HRS})}{\sqrt{1 + \theta_{tg}^2 + \phi_{tg}^2}}\right)$$

- CH2 double peak

- $Y_{tg}$  
$$z_{react} = -(y_{tg} + D) \frac{\cos(\phi_{tg})}{\sin(\theta_0 + \phi_{tg})} + x_{beam} \cot(\theta_0 + \phi_{tg})$$

- multi-foil

- $z_{react}$  relates to  $y_{beam}$ , a correction