# Central Injector Summary 

## PT

## 29-Nov-2007

For more complete information on this topic, see the meeting information:
http://ilcdoc.linearcollider.org/record/7925/files/ (presentation)
http://ilcdoc.linearcollider.org/record/8605/files/ (minutes and notes)

## Linac Tunnel X-Section

Service tunnel is off the page to the right


## Linac Tunnel X-Section (2)



Distance between RTML / PSOURCE elevation and MLI elevation $=2.143 \mathrm{~m}$

Note: PSOURCE and RTML need to be exchanged PSOURCE needs to be closer to MLI than RTML

X offsets from MLI axis:
PSOURCE: 1.243 m
RTML: $\quad 1.593$ m
"Upstairs" (injector) tunnels (at DR elevation) should have same layout: booster linac CMs on floor; RTML return line on ceiling with x offset.

## Three Tunnels



Injector Tunnel

Linac Tunnel


Arc to DR is on this side somewhere - implies that injector beamline arc has a larger radius of curvature than the RTML extraction arc, since injector has CM and SC solenoid so RTML and injector positioning relationship should be maintained through the arc

## DR Tunnel X-Section



## DRi/DRx Elevations

## ERTML



PRTML


## DR Connections

## ERTML



Note: PSOURCE injection line and ERTML extraction line DO NOT actually pass through each other, but I can't draw them correctly on this picture...

