



$\epsilon_{\text{TPC}} \uparrow$  (embed. stat.)  
 $\epsilon_{\text{TPC}} \uparrow$  (pile-up)  
 $\epsilon_{\text{TPC}} \uparrow$  (dead mat.)  
 $\epsilon_{\text{TOF}} \uparrow$   
 $\epsilon_{\text{RP}} \uparrow$   
 $\langle z_{\text{vtx}} \rangle \uparrow$   
 $\sigma(z_{\text{vtx}}) \uparrow$   
 Luminosity  $\uparrow$

$\epsilon_{\text{TPC}} \downarrow$  (embed. stat.)  
 $\epsilon_{\text{TPC}} \downarrow$  (pile-up)  
 $\epsilon_{\text{TPC}} \downarrow$  (dead mat.)  
 $\epsilon_{\text{TOF}} \downarrow$   
 $\epsilon_{\text{RP}} \downarrow$   
 $\langle z_{\text{vtx}} \rangle \downarrow$   
 $\sigma(z_{\text{vtx}}) \downarrow$   
 Luminosity  $\downarrow$

Total (w/o lumi.)  
 Total (w/ lumi.)