

Charge and  $\tau$  Isolation

Control Region I

Two OS  $\tau_h\tau_h$  with both legs  
passing medium isolation.  
low  $M_{T2}$  or  $\Sigma m_T^{\tau_i}$

Signal Region

Two OS  $\tau_h\tau_h$  with both legs  
passing medium isolation.  
high  $M_{T2}$  or  $\Sigma m_T^{\tau_i}$

Control Region II

Two SS  $\tau_h\tau_h$  with at least one  
leg passing loose  
isolation.  
low  $M_{T2}$  or  $\Sigma m_T^{\tau_i}$

Control Region III

Two SS  $\tau_h\tau_h$  with at least one  
leg passing loose  
isolation.  
high  $M_{T2}$  or  $\Sigma m_T^{\tau_i}$

$M_{T2}$  or  $\Sigma m_T^{\tau_i}$