

Variable	$e\mu$	$e\tau_h$	$\mu\tau_h$	$\tau_h\tau_h$	Variable	$e\mu$	$e\tau_h$	$\mu\tau_h$	$\tau_h\tau_h$
$m_{\tau\tau}^{SV}$	✓✓	✓✓	✓✓	✓✓	$p_T^{jj}$	✓✓	✓✓	✓✓	✓✓
$m_{T\tau\tau}^{SV}$	✓✓	---	---	---	$p_T(\text{b jet}_1)$	---	✓✓	✓✓	✓✓
$p_{T\tau\tau}^{SV}$	✓✓	---	---	---	$p_T(\text{b jet}_2)$	---	✓✓	✓✓	✓✓
$m_{\text{vis}}$	✓-	✓-	✓-	✓✓	$p_T^{\text{miss}}$	-✓	✓✓	✓-	✓-
$p_T^{\text{vis}}$	✓✓	✓✓	✓-	✓-	$D_\zeta$	✓✓	---	---	---
$p_T^{\tau_1}$	---	---	✓-	✓✓	$m_T^e$	---	✓✓	---	---
$p_T^{\tau_2}$	✓-	✓✓	✓✓	✓-	$m_T^\mu$	✓✓	---	✓✓	---
$\Delta R^{e\mu}$	✓✓	---	---	---	$m_T^{e+\mu}$	✓-	---	---	---
$p_T(\text{jet}_1)$	✓✓	✓✓	✓✓	✓-	$\max(m_T^\mu, m_T^e)$	✓✓	---	---	---
$\eta(\text{jet}_1)$	✓-	---	---	---	$m_T^{\tau_h}$	---	✓✓	✓-	✓✓
$p_T(\text{jet}_2)$	✓✓	✓✓	✓✓	✓✓	$p_T^{\tau\tau+\text{miss}}$	✓✓	✓✓	✓✓	✓✓
$\eta(\text{jet}_2)$	✓-	---	---	---	$p_T^{\tau\tau jj+\text{miss}}$	-✓	---	---	---
$m_{jj}$	✓✓	✓✓	✓✓	✓✓	$N_{\text{b jet}}$	---	✓✓	✓✓	✓✓
$\Delta\eta_{jj}$	✓✓	✓✓	✓✓	✓✓	$N_{\text{jet}}$	✓✓	✓✓	✓✓	-✓