Fields in the vertex   Variational derivative of Lagrangian by fields   $A_{\mu} = A_{\nu} = -\frac{1}{M_{\rho}^{2} \cdot \cos \theta_{w}^{2}} \left(\cos \theta_{w}^{2} \cdot M_{\rho}^{2} \cdot p_{1}^{\rho} p_{1}^{\rho} g^{\mu\nu} - \cos \theta_{w}^{2} \cdot M_{\rho}^{2} \cdot p_{1}^{\mu} p_{1}^{\nu} + 2 \cos \theta_{w}^{2} \cdot M_{W}^{2} \cdot \sin \theta_{w}^{2} \cdot a^{2} \cdot p_{1}^{\mu} p_{1}^{\nu} + 2 \cos \theta_{w}^{2} \cdot M_{\rho}^{2} \cdot M_{W}^{2} \cdot \sin \theta_{w}^{2} \cdot a^{2} \cdot g^{\mu\nu} \right)$ $A_{\mu} = \omega_{\nu} = -\frac{M_{W} \cdot \sin \theta_{w} \cdot a}{M_{\phi} \cdot \cos \theta_{w}^{2}} g^{\mu\nu} \left(\cos \theta_{w}^{2} M_{\rho}^{2} - M_{W}^{2} \sin \theta_{w}^{2} a^{2}\right)$	
$-2\cos\theta_w^2 \cdot M_W^2 \cdot \sin\theta_w^2 \cdot a^2 \cdot p_1^{\mu} p_1^{\nu} + 2\cos\theta_w^2 \cdot M_{\rho}^2 \cdot M_W^2 \cdot \sin\theta_w^2 \cdot a^2 \cdot g^{\mu\nu}$	
	1
$A_{\mu} \omega_{\nu} = -\frac{M_W \cdot \sin \theta_w \cdot a}{M_{\nu} \cos \theta^2} g^{\mu\nu} (\cos \theta_w^2 M_{\rho}^2 - M_W^2 \sin \theta_w^2 a^2)$	$M_W^4 \cdot \sin \theta_w^2$
$V_{ij} = V_{ij} = V_{ij} = V_{ij}$	
$A_{\mu}  \rho^{0}_{\nu} \qquad \qquad \left  -\frac{M_{W} \cdot \sin \theta_{w} \cdot a}{M_{\rho}} g^{\mu\nu} (M_{\rho}^{2} - M_{W}^{2} a^{2}) \right $	
$ A_{\mu} Z_{\nu} = -\frac{M_{W}^{2} \cdot \sin \theta_{w} \cdot a^{2}}{\cos \theta_{w}^{3} \cdot M_{\rho}^{2}} (\cos \theta_{w}^{2} \cdot p_{1}^{\rho} p_{1}^{\rho} g^{\mu\nu} - 2 \cos \theta_{w}^{2} \cdot \sin \theta_{w}^{2} \cdot p_{1}^{\rho} p_{1}^{\rho} g^{\mu\nu} - \cos \theta_{w}^{2} \cdot p_{1}^{\mu} p_{1}^{\nu} $	$+2\cos\theta_w^2\cdot\sin\theta$
$+\cos\theta_{w}^{2} \cdot M_{\rho}^{2} \cdot g^{\mu\nu} - 2\cos\theta_{w}^{2} \cdot M_{\rho}^{2} \cdot \sin\theta_{w}^{2} \cdot g^{\mu\nu} + 2M_{W}^{2} \cdot \sin\theta_{w}^{2} \cdot a^{2} \cdot g^{\mu\nu}$	$'-M_W^2\cdot a^2\cdot g^\mu$
$\left \begin{array}{cc} ar{b}_{ap} & b_{bq} \end{array}\right  \left \begin{array}{cc} -p_1^\mu \delta_{pq} \gamma_{ac}^\mu \delta_{cb} \end{array}\right $	
$egin{array}{ c c c c c c c c c c c c c c c c c c c$	
$igg ar{d}_{ap} = d_{bq} = igg -p_1^\mu \delta_{pq} \gamma_{ac}^\mu \delta_{cb}$	
$egin{array}{ccc} ar{e}_a & e_b & & & & & & & & & & & & & & & & & & &$	
$\left  egin{array}{cc} ar{\mu}_a & \mu_b \end{array} \right  \left  -p_1^\mu \gamma_{ac}^\mu \delta_{cb}  ight $	
$\left  \begin{array}{ccc} ar{ au}_a &  au_b \end{array} \right  \left  \begin{array}{ccc} -p_1^\mu \gamma_{ac}^\mu \delta_{cb} \end{array} \right $	
$igg  H = H = igg  -(MH^2-p_1^\mu p_1^\mu)$	
$\left  ar{ u}^e{}_a   u^e{}_b \qquad \left  -p_1^\mu \gamma^\mu_{ac} rac{(1-\gamma^5)_{cb}}{2}  ight $	
$\left  \; ar{ u}^{\mu}_{\;\;a} \;\;\;  u^{\mu}_{\;\;b} \;\;\;\; \left  \; -p_{1}^{\mu} \gamma^{\mu}_{ac} rac{(1-\gamma^{5})_{cb}}{2} \;$	
$\left  \begin{array}{ccc} ar{ u}^{ au}{}_a &  u^{ au}{}_b \end{array} \right  \left  \begin{array}{ccc} -p_1^{\mu} \gamma_{ac}^{\mu} & \frac{(1-\gamma^5)_{cb}}{2} \end{array} \right $	
$ \left  \begin{array}{cccccccccccccccccccccccccccccccccccc$	$2 \cdot p_1^{\mu} p_1^{\nu} - M_W^4 \cdot$
$-3\cos\theta_{w}^{2} \cdot M_{\rho}^{2} \cdot M_{W}^{2} \cdot \sin\theta_{w}^{2} \cdot a^{2} \cdot g^{\mu\nu} + \cos\theta_{w}^{4} \cdot M_{\rho}^{2} \cdot p_{1}^{\rho} p_{1}^{\rho} g^{\mu\nu} - \cos\theta_{w}^{4} \cdot m_{\rho}^{2} \cdot p_{2}^{\rho} p_{1}^{\rho} g^{\mu\nu} - \cos\theta_{w}^{4} \cdot m_{\rho}^{2} \cdot g^{\mu\nu} + \cos\theta_{w}^{4} \cdot m_{\rho}^{2} \cdot g^{\mu\nu}$	$M_{\rho}^2 \cdot p_1^{\mu} p_1^{\nu} - M_V$
$\left \begin{array}{cc} \omega_{\mu} & \rho^{0}_{\nu} \end{array}\right  = \frac{M_{W}^{4} \cdot \sin \theta_{w}^{2} \cdot a^{2}}{\cos \theta_{w}^{2} \cdot M_{\rho}^{2}} \cdot g^{\mu \nu}$	
	$a^2 \cdot g^{\mu\nu}$
$+M_{\rho}^{2} \cdot p_{1}^{\rho} p_{1}^{\rho} g^{\mu\nu} - M_{\rho}^{2} \cdot p_{1}^{\mu} p_{1}^{\nu} - M_{W}^{4} \cdot a^{2} \cdot g^{\mu\nu})$	
$\left  \begin{array}{ccc}  ho^{+}_{\ \mu} & W^{-}_{\ \nu} \end{array} \right  = \frac{M_{W} \cdot a}{M_{ ho}} g^{\mu \nu} (M_{ ho}^{\ 2} - M_{W}^{\ 2} a^{2} + M_{W}^{\ 2})$	
$\rho^{\mu} W^+_{\nu} = -\frac{M_W \cdot a}{M_\rho} g^{\mu\nu} (M_\rho^2 - M_W^2 a^2 + M_W^2)$	
	$a^2 \cdot g^{\mu\nu}$

Fields in the vertex	Variational derivative of Lagrangian by fields
	$+M_{\rho}^{2} \cdot p_{1}^{\rho} p_{1}^{\rho} g^{\mu\nu} - M_{\rho}^{2} \cdot p_{1}^{\mu} p_{1}^{\nu} - M_{W}^{4} \cdot a^{2} \cdot g^{\mu\nu})$
$\rho^0_{\ \mu}  Z_{ u}$	$-\frac{M_W \cdot a}{\cos \theta_w \cdot M_\rho} g^{\mu\nu} (\cos \theta_w^2 M_\rho^2 - \cos \theta_w^2 M_W^2 a^2 + M_W^2)$
$ar{S}_{ap}$ $S_{bq}$	$-p_1^\mu \delta_{pq} \gamma_{ac}^\mu \delta_{cb}$
$ig ar{t}_{ap}$ $t_{bq}$	$-p_1^\mu \delta_{pq} \gamma_{ac}^\mu \delta_{cb}$
$ \bar{u}_{ap}  u_{bq} $	$-p_1^\mu \delta_{pq} \gamma_{ac}^\mu \delta_{cb}$
$W^+_{\mu} W^{\nu}$	$ -\frac{1}{M_{\rho^2}} (M_{\rho^2} \cdot p_1^{\rho} p_1^{\rho} g^{\mu\nu} - M_{\rho^2} \cdot p_1^{\mu} p_1^{\nu} + M_W^2 \cdot a^2 \cdot p_1^{\rho} p_1^{\rho} g^{\mu\nu} - M_W^2 \cdot a^2 \cdot p_1^{\mu} p_1^{\nu} - M_W^4 \cdot a^4 \cdot g^{\mu\nu} ) $
	$+M_{\rho}^{2} \cdot M_{W}^{2} \cdot a^{2} \cdot g^{\mu\nu} - M_{\rho}^{2} \cdot M_{W}^{2} \cdot g^{\mu\nu})$
$Z_{\mu}$ $Z_{ u}$	$ -\frac{1}{M_{\rho}^{2} \cdot \cos \theta_{w}^{4}} (\cos \theta_{w}^{4} \cdot M_{\rho}^{2} \cdot p_{1}^{\rho} p_{1}^{\rho} g^{\mu\nu} - \cos \theta_{w}^{4} \cdot M_{\rho}^{2} \cdot p_{1}^{\mu} p_{1}^{\nu} - 2 \cos \theta_{w}^{4} \cdot M_{W}^{2} \cdot \sin \theta_{w}^{2} \cdot a^{2} \cdot p_{1}^{\rho} p_{1}^{\rho} $
	$+\cos\theta_w^2 \cdot M_W^2 \cdot a^2 \cdot p_1^{\rho} p_1^{\rho} g^{\mu\nu} + 2\cos\theta_w^4 \cdot M_W^2 \cdot \sin\theta_w^2 \cdot a^2 \cdot p_1^{\mu} p_1^{\nu} - \cos\theta_w^2 \cdot M_W^2 \cdot a^2 \cdot p_1^{\mu} p_1^{\nu}$
	$-2\cos\theta_w^{\ 4} \cdot M_{\rho}^{\ 2} \cdot M_W^{\ 2} \cdot \sin\theta_w^{\ 2} \cdot a^2 \cdot g^{\mu\nu} + \cos\theta_w^{\ 2} \cdot M_{\rho}^{\ 2} \cdot M_W^{\ 2} \cdot a^2 \cdot g^{\mu\nu} + 3\cos\theta_w^{\ 2} \cdot M_W^{\ 4} \cdot \sin\theta_w^{\ 4}$
	$-M_W^4 \cdot a^4 \cdot g^{\mu\nu} - \cos\theta_w^2 \cdot M_\rho^2 \cdot M_W^2 \cdot g^{\mu\nu})$
$A_{\mu}  \rho^{+}_{\nu}  \rho^{-}_{\rho}$	$\frac{e}{M_{\rho^2}}(M_W^2 \cdot a^2 \cdot p_2^{\rho}g^{\mu\nu} - M_W^2 \cdot a^2 \cdot p_2^{\mu}g^{\nu\rho} - M_W^2 \cdot a^2 \cdot p_3^{\nu}g^{\mu\rho} + M_W^2 \cdot a^2 \cdot p_3^{\mu}g^{\nu\rho})$
	$ + M_W^2 \cdot a^2 \cdot p_1^{\nu} g^{\mu\rho} - M_W^2 \cdot a^2 \cdot p_1^{\rho} g^{\mu\nu} + M_{\rho}^2 \cdot p_2^{\rho} g^{\mu\nu} - M_{\rho}^2 \cdot p_2^{\mu} g^{\nu\rho} - M_{\rho}^2 \cdot p_3^{\nu} g^{\mu\rho} + M_{\rho}^2 \cdot p_3^{\mu} g^{\nu\rho} + M_{\rho}^2 $
	$+M_{ ho}^{2}\cdot p_{1}^{ u}g^{\mu ho}-M_{ ho}^{2}\cdot p_{1}^{ ho}g^{\mu u})$
$A_{\mu}$ $W^{+}_{\nu}$ $W^{-}_{\rho}$	$\frac{e}{M_{\rho^2}} (M_{\rho^2} \cdot p_2^{\rho} g^{\mu\nu} - M_{\rho^2} \cdot p_2^{\mu} g^{\nu\rho} - M_{\rho^2} \cdot p_3^{\nu} g^{\mu\rho} + M_{\rho^2} \cdot p_3^{\mu} g^{\nu\rho} + M_{\rho^2} \cdot p_1^{\nu} g^{\mu\rho})$
	$-M_{\rho}^{2} \cdot p_{1}^{\rho} g^{\mu\nu} + M_{W}^{2} \cdot a^{2} \cdot p_{2}^{\rho} g^{\mu\nu} - M_{W}^{2} \cdot a^{2} \cdot p_{2}^{\mu} g^{\nu\rho} - M_{W}^{2} \cdot a^{2} \cdot p_{3}^{\nu} g^{\mu\rho} + M_{W}^{2} \cdot a^{2} \cdot p_{3}^{\mu} g^{\nu\rho}$
	$+M_W^2 \cdot a^2 \cdot p_1^{\nu} g^{\mu\rho} - M_W^2 \cdot a^2 \cdot p_1^{\rho} g^{\mu\nu})$
$\bar{b}_{ap}$ $b_{bq}$ $A_{\mu}$	$\frac{1}{3}e\delta_{pq}\gamma^{\mu}_{ac}\cdot\delta_{cb}$
$ar{b}_{ap}$ $b_{bq}$ $\omega_{\mu}$	$-\frac{1}{6} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} (6M_\rho^2 \cdot \sin \theta_w^2 \cdot \frac{(1+\gamma^5)_{cb}}{2} - 4M_\rho^2 \cdot \frac{(1+\gamma^5)_{cb}}{2}$
	$-4M_W^2 \cdot \sin\theta_w^2 \cdot a^2 \cdot \frac{(1+\gamma^5)_{cb}}{2} - 3M_\rho^2 \cdot \sin\theta_w^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} + 2M_\rho^2 \cdot \frac{(1-\gamma^5)_{cb}}{2}$
	$+2M_W^2 \cdot \sin\theta_w^2 \cdot a^2 \cdot \frac{(1-\gamma^5)_{cb}}{2})$
$\bar{b}_{ap}$ $b_{bq}$ $\rho^0_{\ \mu}$	$\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$ig ar{b}_{ap} b_{bq} Z_{\mu}$	$-\frac{1}{6} \frac{e}{\cos \theta_w \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} (2\sin \theta_w^2 \cdot \delta_{cb} - 3\frac{(1-\gamma^5)_{cb}}{2})$
$ \bar{b}_{ap}  c_{bq}  \rho^{\ \mu}$	$ \frac{\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_{\rho^3 \cdot \sin \theta_w}} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_{\rho^2} + 2M_W^2 a^2)}{-\frac{1}{6} \frac{e}{\cos \theta_w \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} (2 \sin \theta_w^2 \cdot \delta_{cb} - 3 \frac{(1 - \gamma^5)_{cb}}{2})}{-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot V \cdot cb \cdot a \cdot e}{M_{\rho^3 \cdot \sin \theta_w}} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_{\rho^2} + 2M_W^2 a^2)} $
$\bar{b}_{ap}$ $c_{bq}$ $W^{-}_{\mu}$	$-\frac{1}{2} \frac{\sqrt{2 \cdot V cb \cdot e}}{\sin \theta_w} \cdot \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2}$

Fields i	n the vertex	Variational derivative of Lagrangian by fields
$\bar{b}_{ap}$ $t_{bq}$	$ ho^-{}_\mu$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot Vtb \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$ \bar{b}_{ap}  t_{bq}$	$W^-{}_\mu$	$-\frac{1}{2}\frac{\sqrt{2}\cdot Vtb\cdot e}{\sin\theta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$ \bar{b}_{ap}  u_{bq}$	$ ho^-{}_\mu$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot Vub \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$ \bar{b}_{ap}  u_{ba}$	$W^{\mu}$	$-\frac{1}{2}\frac{\sqrt{2}\cdot Vub\cdot e}{\sin\theta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$\bar{c}_{ap}$ $b_{bq}$	$ ho^+{}_\mu$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot V cb \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{c}_{ap}$ $b_{bq}$	$W^+_{\mu}$	$-\frac{1}{2}\frac{\sqrt{2}\cdot V \cdot cb \cdot e}{\sin \theta_w} \cdot \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2}$
$\bar{c}_{ap}$ $c_{bq}$	$A_{\mu}$	$-\frac{2}{3}e\delta_{pq}\gamma^{\mu}_{ac}\cdot\delta_{cb}$
$\bar{c}_{ap}$ $c_{bq}$	$\omega_{\mu}$	$\frac{1}{6} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} (3M_\rho^2 \cdot \sin \theta_w^2 \cdot \frac{(1 - \gamma^5)_{cb}}{2} - 2M_\rho^2 \cdot \frac{(1 - \gamma^5)_{cb}}{2}$
		$ -2M_W^2 \cdot \sin \theta_w^2 \cdot a^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} + 12M_{\rho}^2 \cdot \sin \theta_w^2 \cdot \frac{(1+\gamma^5)_{cb}}{2} - 8M_{\rho}^2 \cdot \frac{(1+\gamma^5)_{cb}}{2} $
		$-8M_W^2 \cdot \sin\theta_w^2 \cdot a^2 \cdot \frac{(1+\gamma^5)_{cb}}{2})$
$\bar{c}_{ap}$ $c_{bq}$	$ ho^0{}_\mu$	$-\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{c}_{ap}$ $c_{bq}$	$Z_{\mu}$	$\frac{1}{6} \frac{e}{\cos \theta_w \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} (4 \sin \theta_w^2 \cdot \delta_{cb} - 3 \frac{(1 - \gamma^5)_{cb}}{2})$
$\bar{c}_{ap}$ $d_{bq}$	$ ho^+_{\mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot V \cdot cd \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{c}_{ap}$ $d_{bq}$	$W^+_{\mu}$	$-\frac{1}{2}\frac{\sqrt{2}\cdot V cd\cdot e}{\sin\theta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$\bar{c}_{ap}$ $s_{bq}$	$\rho^+_{\mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot V \cdot c \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{c}_{ap}$ $s_{bq}$	$W^+_{\mu}$	$-\frac{1}{2}\frac{\sqrt{2}\cdot Vcs\cdot e}{\sin\theta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$ \bar{d}_{ap}  c_{bq}$	$ ho^\mu$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot V \cdot cd \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$ \bar{d}_{ap}  c_{bq}$	$W^{-}_{\mu}$	$-\frac{1}{2}\frac{\sqrt{2}\cdot V cd\cdot e}{\sin\theta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$\int \bar{d}_{ap} d_{be}$	$_{q}$ $A_{\mu}$	$\frac{1}{3}e\delta_{pq}\gamma^{\mu}_{ac}\cdot\delta_{cb}$
$\int \bar{d}_{ap} d_{be}$	$_{q}$ $\omega_{\mu}$	$ -\frac{1}{6} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} (6M_\rho^2 \cdot \sin \theta_w^2 \cdot \frac{(1+\gamma^5)_{cb}}{2} - 4M_\rho^2 \cdot \frac{(1+\gamma^5)_{cb}}{2} $
		$-4M_W^2 \cdot \sin \theta_w^2 \cdot a^2 \cdot \frac{(1+\gamma^5)_{cb}}{2} - 3M_\rho^2 \cdot \sin \theta_w^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} + 2M_\rho^2 \cdot \frac{(1-\gamma^5)_{cb}}{2}$
		$+2M_W^2 \cdot \sin\theta_w^2 \cdot a^2 \cdot \frac{(1-\gamma^5)_{cb}}{2})$
$\int \bar{d}_{ap} d_{be}$	$_{q}$ $ ho^{0}{}_{\mu}$	$\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\left  \begin{array}{ccc} \bar{d}_{ap} & d_{ba} \\ \bar{d}_{ap} & d_{ba} \end{array} \right $	$_{q}$ $Z_{\mu}$	$-\frac{1}{6} \frac{e}{\cos \theta_w \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} (2 \sin \theta_w^2 \cdot \delta_{cb} - 3 \frac{(1 - \gamma^5)_{cb}}{2})$
$\bar{d}_{ap}$ $t_{bq}$	$ ho^-{}_\mu$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot Vtd \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$

Fields in the vertex	Variational derivative of Lagrangian by fields
$\bar{d}_{ap}$ $t_{bq}$ $W^{\mu}$	$-\frac{1}{2}\frac{\sqrt{2\cdot Vtd\cdot e}}{\sin\theta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$\bar{d}_{ap}$ $u_{bq}$ $\rho^{\mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot Vud \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{d}_{ap}$ $u_{bq}$ $W^{\mu}$	$-\frac{1}{2} \frac{\sqrt{2 \cdot Vud \cdot e}}{\sin \theta_w} \cdot \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2}$
$\bar{e}_a$ $e_b$ $A_\mu$	$e\gamma^{\mu}_{ac}\cdot\delta_{cb}$
$ar{e}_a$ $e_b$ $\omega_\mu$	$ -\frac{1}{2} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} (3M_\rho^2 \cdot \sin \theta_w^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} - 2M_\rho^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} - 2M_W^2 \cdot \sin \theta_w^2 \cdot a^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} $
	$+6M_{\rho}^{2} \cdot \sin \theta_{w}^{2} \cdot \frac{(1+\gamma^{5})_{cb}}{2} - 4M_{\rho}^{2} \cdot \frac{(1+\gamma^{5})_{cb}}{2} - 4M_{W}^{2} \cdot \sin \theta_{w}^{2} \cdot a^{2} \cdot \frac{(1+\gamma^{5})_{cb}}{2})$
$\bar{e}_a  e_b  {\rho^0}_\mu$	$\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$egin{array}{cccc} ar{e}_a & e_b & Z_{\mu} \end{array}$	$-\frac{1}{2}\frac{e}{\cos\theta_w\cdot\sin\theta_w}\gamma_{ac}^{\mu}(2\sin\theta_w^2\cdot\delta_{cb}-\frac{(1-\gamma^5)_{cb}}{2})$
$\bar{e}_a  \nu^e{}_b  \rho^-{}_\mu$	$ -\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2) $
$\bar{e}_a  \nu^e{}_b  W^-{}_\mu$	$-\frac{1}{2}\frac{\sqrt{2}\cdot e}{\sin\theta_w}\cdot\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$\bar{\mu}_a$ $\mu_b$ $A_\mu$	$e\gamma^{\mu}_{ac}\cdot\delta_{cb}$
$egin{array}{cccc} ar{\mu}_a & \mu_b & \omega_\mu \end{array}$	$ -\frac{1}{2} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} (3M_\rho^2 \cdot \sin \theta_w^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} - 2M_\rho^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} - 2M_W^2 \cdot \sin \theta_w^2 \cdot a^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} $
	$+6M_{\rho}^{2} \cdot \sin \theta_{w}^{2} \cdot \frac{(1+\gamma^{5})_{cb}}{2} - 4M_{\rho}^{2} \cdot \frac{(1+\gamma^{5})_{cb}}{2} - 4M_{W}^{2} \cdot \sin \theta_{w}^{2} \cdot a^{2} \cdot \frac{(1+\gamma^{5})_{cb}}{2})$
$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$ar{\mu}_a$ $\mu_b$ $Z_\mu$	$-\frac{1}{2}\frac{e}{\cos\theta_w\cdot\sin\theta_w}\gamma_{ac}^{\mu}(2\sin\theta_w^2\cdot\delta_{cb}-\frac{(1-\gamma^5)_{cb}}{2})$
$\bar{\mu}_a  { u^\mu}_b  { ho^-}_\mu$	$-\frac{1}{2}\frac{M_W\cdot\sqrt{2}\cdot a\cdot e}{M_\rho^3\cdot \sin\theta_w}\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}(M_\rho^2+2M_W^2a^2)$
$\bar{\mu}_a  \nu^{\mu}{}_b  W^{-}{}_{\mu}$	$-\frac{1}{2}\frac{\sqrt{2}\cdot e}{\sin\theta_w}\cdot\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$\bar{ au}_a$ $ au_b$ $A_\mu$	$e\gamma^{\mu}_{ac}\cdot\delta_{cb}$
$ar{ au}_a$ $ au_b$ $\omega_\mu$	$ -\frac{1}{2} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} (3M_\rho^2 \cdot \sin \theta_w^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} - 2M_\rho^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} - 2M_W^2 \cdot \sin \theta_w^2 \cdot a^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} $
	$+6M_{\rho}^{2} \cdot \sin \theta_{w}^{2} \cdot \frac{(1+\gamma^{5})_{cb}}{2} - 4M_{\rho}^{2} \cdot \frac{(1+\gamma^{5})_{cb}}{2} - 4M_{W}^{2} \cdot \sin \theta_{w}^{2} \cdot a^{2} \cdot \frac{(1+\gamma^{5})_{cb}}{2})$
$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$ar{ au}_a$ $ au_b$ $Z_\mu$	$-\frac{1}{2}\frac{e}{\cos\theta_w \cdot \sin\theta_w} \gamma_{ac}^{\mu} (2\sin\theta_w^2 \cdot \delta_{cb} - \frac{(1-\gamma^5)_{cb}}{2})$
$\bar{ au}_a$ $\nu^{ au}_b$ $\rho^\mu$	$-\frac{1}{2}\frac{M_W\cdot\sqrt{2}\cdot a\cdot e}{M_\rho^3\cdot \sin\theta_w}\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}(M_\rho^2+2M_W^2a^2)$
$\bar{\tau}_a$ $\nu^{ au}_b$ $W^{\mu}$	$-\frac{1}{2}\frac{\sqrt{2}\cdot e}{\sin\theta_w}\cdot\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
H $H$ $H$	$-\frac{3}{2}\frac{MH^2 \cdot e}{M_W \cdot \sin \theta_w}$

Fields in the vertex	Variational derivative of Lagrangian by fields
$H$ $\omega_{\mu}$ $\omega_{\nu}$	$\frac{M_W^3 \cdot \sin \theta_w^3 \cdot a^2 \cdot e}{\cos \theta_w^4 \cdot M_\rho^2} \cdot g^{\mu\nu}$
$H  \omega_{\mu}  {\rho^0}_{\nu}$	$-\frac{M_W^3 \cdot \sin \theta_w \cdot a^2 \cdot e}{\cos \theta_w^2 \cdot M_\rho^2} \cdot g^{\mu\nu}$
$H$ $\omega_{\mu}$ $Z_{ u}$	$rac{M_W^2 \cdot \sin  heta_w \cdot a \cdot e}{\cos  heta_w^3 \cdot M_ ho} \cdot g^{\mu u}$
$H  \rho^+_{\ \mu}  \rho^{\ \nu}$	$\frac{M_W^3 \cdot a^2 \cdot e}{M_{ ho}^2 \cdot \sin \theta_w} \cdot g^{\mu  u}$
$H  \rho^+_{\ \mu}  W^{\ \nu}$	$-rac{M_W^2 \cdot a \cdot e}{M_ ho \cdot \sin  heta_w} \cdot g^{\mu  u}$
$H$ $\rho^{\mu}$ $W^+_{\nu}$	
$H  \rho^0_{\ \mu}  \rho^0_{\ \nu}$	$\frac{M_W^3 \cdot a^2 \cdot e}{M_{\rho}^2 \cdot \sin \theta_w} \cdot g^{\mu\nu}$
$H \rho^0_{\mu} Z_{\nu}$	$-\frac{M_W^2 \cdot a \cdot e}{\cos \theta_w \cdot M_\rho \cdot \sin \theta_w} \cdot g^{\mu \nu}$
$H$ $W^+_{\mu}$ $W^{\nu}$	$rac{M_W \cdot e}{\sin  heta_w} \cdot g^{\mu  u}$
$H$ $Z_{\mu}$ $Z_{ u}$	$\frac{M_W \cdot e}{\cos \theta_w^2 \cdot \sin \theta_w} \cdot g^{\mu\nu}$
$\bar{\nu}^e{}_a  e_b  {\rho^+}_{\mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{\nu}^e{}_a$ $e_b$ $W^+{}_\mu$	$-\frac{1}{2}\frac{\sqrt{2}\cdot e}{\sin\theta_w}\cdot\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$\bar{\nu}^e{}_a$ $\nu^e{}_b$ $\omega_\mu$	$-\frac{1}{2} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (3M_\rho^2 \sin \theta_w^2 - 2M_\rho^2 - 2M_W^2 \sin \theta_w^2 a^2)$
$\bar{\nu}^e{}_a$ $\nu^e{}_b$ $\rho^0{}_\mu$	$-\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{ u}^e{}_a$ $ u^e{}_b$ $Z_\mu$	$-\frac{1}{2}\frac{e}{\cos\theta_w\cdot\sin\theta_w}\cdot\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$\bar{ u}^{\mu}{}_{a}$ $\mu_{b}$ $\rho^{+}{}_{\mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot a \cdot e}{M_{\rho^3} \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_{\rho^2} + 2M_W^2 a^2)$
$\bar{\nu}^{\mu}{}_{a}$ $\mu_{b}$ $W^{+}{}_{\mu}$	$-rac{1}{2}rac{\sqrt{2}\cdot e}{\sin heta_w}\cdot\gamma_{ac}^{\mu}rac{(1-\gamma^5)_{cb}}{2}$
$\bar{\nu}^{\mu}{}_{a}$ $\nu^{\mu}{}_{b}$ $\omega_{\mu}$	$-\frac{1}{2} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (3M_\rho^2 \sin \theta_w^2 - 2M_\rho^2 - 2M_W^2 \sin \theta_w^2 a^2)$
$\bar{\nu}^{\mu}{}_{a}$ $\nu^{\mu}{}_{b}$ $\rho^{0}{}_{\mu}$	$-\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{\nu}^{\mu}{}_{a}$ $\nu^{\mu}{}_{b}$ $Z_{\mu}$	$-\frac{1}{2}\frac{e}{\cos\theta_w\cdot\sin\theta_w}\cdot\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$\bar{ u}^{ au}{}_a$ $ au_b$ $ ho^+{}_{\mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{\nu}^{\tau}{}_{a}$ $\tau_{b}$ $W^{+}{}_{\mu}$	= t w =
$\bar{ u}^{ au}{}_{a}$ $ u^{ au}{}_{b}$ $\omega_{\mu}$	$-\frac{1}{2} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (3M_\rho^2 \sin \theta_w^2 - 2M_\rho^2 - 2M_W^2 \sin \theta_w^2 a^2)$
$\bar{ u}^{ au}{}_a$ ${ u^{ au}}_b$ ${ ho^0}_\mu$	$-\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{ u}^{ au}{}_{a}$ $ u^{ au}{}_{b}$ $Z_{\mu}$	$-\frac{1}{2}\frac{e}{\cos\theta_w\cdot\sin\theta_w}\cdot\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$

Fields in the vertex	Variational derivative of Lagrangian by fields
$\rho^+_{\mu}$ $\rho^{\nu}$ $\rho^0_{\rho}$	$-\frac{e}{M_{\rho^{3} \cdot M_{W} \cdot \sin \theta_{w} \cdot a}} (M_{W}^{4} \cdot a^{4} \cdot p_{1}^{\nu} g^{\mu \rho} - M_{W}^{4} \cdot a^{4} \cdot p_{1}^{\rho} g^{\mu \nu} - M_{W}^{4} \cdot a^{4} \cdot p_{2}^{\mu} g^{\nu \rho} + M_{W}^{4} \cdot a^{4} \cdot p_{2}^{\rho} g^{\mu \nu}$
	$+M_W{}^4 \cdot a^4 \cdot p_3^{\mu} g^{\nu\rho} - M_W{}^4 \cdot a^4 \cdot p_3^{\nu} g^{\mu\rho} - M_{\rho}{}^4 \cdot p_1^{\nu} g^{\mu\rho} + M_{\rho}{}^4 \cdot p_1^{\rho} g^{\mu\nu} + M_{\rho}{}^4 \cdot p_2^{\mu} g^{\nu\rho} - M_{\rho}{}^4 \cdot p_2^{\rho} g^{\mu\nu}$
	$-M_{ ho}{}^4 \cdot p_3^{\mu} g^{ u ho} + M_{ ho}{}^4 \cdot p_3^{ u} g^{\mu ho})$
$\rho^+_{\mu}$ $\rho^{\nu}$ $Z_{\rho}$	$\frac{\cos\theta_w \cdot e}{M_{\rho}^2 \cdot \sin\theta_w} (M_W^2 \cdot a^2 \cdot p_1^{\nu} g^{\mu\rho} - M_W^2 \cdot a^2 \cdot p_1^{\rho} g^{\mu\nu} - M_W^2 \cdot a^2 \cdot p_2^{\mu} g^{\nu\rho} + M_W^2 \cdot a^2 \cdot p_2^{\rho} g^{\mu\nu}$
	$+ M_W^2 \cdot a^2 \cdot p_3^{\mu} g^{\nu\rho} - M_W^2 \cdot a^2 \cdot p_3^{\nu} g^{\mu\rho} + M_{\rho}^2 \cdot p_1^{\nu} g^{\mu\rho} - M_{\rho}^2 \cdot p_1^{\rho} g^{\mu\nu} - M_{\rho}^2 \cdot p_2^{\mu} g^{\nu\rho} + M_{\rho}^2 \cdot p_2^{\rho} g^{\mu\nu}$
	$+ M_{ ho}^{\; 2} \cdot p_3^{\mu} g^{ u ho} - M_{ ho}^{\; 2} \cdot p_3^{ u} g^{\mu ho})$
$\rho^+{}_\mu  \rho^0{}_\nu  W^-{}_\rho$	$\frac{e}{M_{\rho^2 \cdot \sin \theta_w}} (M_W^2 \cdot a^2 \cdot p_1^{\rho} g^{\mu\nu} - M_W^2 \cdot a^2 \cdot p_1^{\nu} g^{\mu\rho} - M_W^2 \cdot a^2 \cdot p_3^{\mu} g^{\nu\rho} + M_W^2 \cdot a^2 \cdot p_3^{\nu} g^{\mu\rho})$
	$+M_W{}^2 \cdot a^2 \cdot p_2^{\mu} g^{\nu\rho} - M_W{}^2 \cdot a^2 \cdot p_2^{\rho} g^{\mu\nu} + M_{\rho}{}^2 \cdot p_1^{\rho} g^{\mu\nu} - M_{\rho}{}^2 \cdot p_1^{\nu} g^{\mu\rho} - M_{\rho}{}^2 \cdot p_3^{\mu} g^{\nu\rho} + M_{\rho}{}^2 \cdot p_3^{\nu} g^{\mu\rho} + M_{\rho}{}^2 \cdot p_3^{\nu} g^{\nu\rho} + M_{\rho}$
	$+M_ ho^2\cdot p_2^\mu g^{ u ho}-M_ ho^2\cdot p_2^ ho g^{\mu u})$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{e}{M_{\rho^2 \cdot \sin \theta_w}} (M_W^2 \cdot a^2 \cdot p_3^{\mu} g^{\nu \rho} - M_W^2 \cdot a^2 \cdot p_3^{\nu} g^{\mu \rho} - M_W^2 \cdot a^2 \cdot p_1^{\rho} g^{\mu \nu} + M_W^2 \cdot a^2 \cdot p_1^{\nu} g^{\mu \rho})$
	$+M_W{}^2 \cdot a^2 \cdot p_2^{\rho} g^{\mu\nu} - M_W{}^2 \cdot a^2 \cdot p_2^{\mu} g^{\nu\rho} + M_{\rho}{}^2 \cdot p_3^{\mu} g^{\nu\rho} - M_{\rho}{}^2 \cdot p_3^{\nu} g^{\mu\rho} - M_{\rho}{}^2 \cdot p_1^{\rho} g^{\mu\nu} + M_{\rho}{}^2 \cdot p_1^{\nu} g^{\mu\rho} + M_{\rho}{}^2 \cdot p_2^{\nu} g^{\nu\rho} + M_{\rho}$
	$+ M_{ ho}{}^2 \cdot p_2^{ ho} g^{\mu  u} - M_{ ho}{}^2 \cdot p_2^{\mu} g^{ u  ho})$
$\bar{s}_{ap}$ $c_{bq}$ $\rho^{\mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot V cs \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{s}_{ap}$ $c_{bq}$ $W^{\mu}$	$-rac{1}{2}rac{\sqrt{2}\cdot Vcs\cdot e}{\sin heta_w}\cdot\delta_{pq}\gamma^{\mu}_{ac}rac{(1-\gamma^5)_{cb}}{2}$
$\bar{s}_{ap}$ $s_{bq}$ $A_{\mu}$	$rac{1}{3}e\delta_{pq}\gamma^{\mu}_{ac}\cdot\delta_{cb}$
$ar{s}_{ap}$ $s_{bq}$ $\omega_{\mu}$	$-\frac{1}{6} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} (6M_\rho^2 \cdot \sin \theta_w^2 \cdot \frac{(1+\gamma^5)_{cb}}{2} - 4M_\rho^2 \cdot \frac{(1+\gamma^5)_{cb}}{2}$
	$-4M_W^2 \cdot \sin \theta_w^2 \cdot a^2 \cdot \frac{(1+\gamma^5)_{cb}}{2} - 3M_\rho^2 \cdot \sin \theta_w^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} + 2M_\rho^2 \cdot \frac{(1-\gamma^5)_{cb}}{2}$
	$+2M_W^2 \cdot \sin\theta_w^2 \cdot a^2 \cdot \frac{(1-\gamma^5)_{cb}}{2})$
$\bar{s}_{ap}$ $s_{bq}$ $\rho^0_{\mu}$	$\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{s}_{ap}$ $s_{bq}$ $Z_{\mu}$	$-\frac{1}{6}\frac{e}{\cos\theta_w\cdot\sin\theta_w}\delta_{pq}\gamma_{ac}^{\mu}(2\sin\theta_w^2\cdot\delta_{cb}-3\frac{(1-\gamma^5)_{cb}}{2})$
$\bar{s}_{ap}$ $t_{bq}$ $\rho^{\mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot V t s \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$ \bar{s}_{ap}  t_{bq}  W^{\mu}$	$-rac{1}{2}rac{\sqrt{2}\cdot Vts\cdot e}{\sin heta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}rac{(1-\gamma^5)_{cb}}{2}$
$ \bar{s}_{ap}  u_{bq}  \rho^{\ \mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot Vus \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$ \bar{s}_{ap}  u_{bq}  W^{\mu}$	$-rac{1}{2}rac{\sqrt{2}\cdot Vus\cdot e}{\sin heta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}rac{(1-\gamma^5)_{cb}}{2}$
$ \bar{t}_{ap}  b_{bq}  \rho^+_{\ \mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot Vtb \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$

Fields in the vertex	Variational derivative of Lagrangian by fields
$\bar{t}_{ap}$ $b_{bq}$ $W^{+}_{\mu}$	$-rac{1}{2}rac{\sqrt{2\cdot Vtb\cdot e}}{\sin heta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}rac{(1-\gamma^5)_{cb}}{2}$
$ \bar{t}_{ap}  d_{bq}  {\rho^+}_{\mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot V t d \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
	$-\frac{1}{2}\frac{\sqrt{2}\cdot Vtd\cdot e}{\sin\theta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot V t s \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{t}_{ap}$ $s_{bq}$ $W^{+}_{\mu}$	$-rac{1}{2}rac{\sqrt{2}\cdot Vts\cdot e}{\sin heta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}rac{(1-\gamma^5)_{cb}}{2}$
$\bar{t}_{ap}$ $t_{bq}$ $A_{\mu}$	$-rac{2}{3}e\delta_{pq}\gamma^{\mu}_{ac}\cdot\delta_{cb}$
$egin{array}{cccc} ar{t}_{ap} & t_{bq} & \omega_{\mu} \end{array}$	$\frac{1}{6} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} (3M_\rho^2 \cdot \sin \theta_w^2 \cdot \frac{(1 - \gamma^5)_{cb}}{2} - 2M_\rho^2 \cdot \frac{(1 - \gamma^5)_{cb}}{2}$
	$-2M_W^2 \cdot \sin \theta_w^2 \cdot a^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} + 12M_{\rho}^2 \cdot \sin \theta_w^2 \cdot \frac{(1+\gamma^5)_{cb}}{2} - 8M_{\rho}^2 \cdot \frac{(1+\gamma^5)_{cb}}{2}$
	$-8M_W^2 \cdot \sin\theta_w^2 \cdot a^2 \cdot \frac{(1+\gamma^5)_{cb}}{2})$
$egin{array}{cccccccccccccccccccccccccccccccccccc$	$-\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$egin{array}{cccc} ar{t}_{ap} & t_{bq} & Z_{\mu} \end{array}$	$\frac{1}{6} \frac{e}{\cos \theta_w \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \left( 4 \sin \theta_w^2 \cdot \delta_{cb} - 3 \frac{(1 - \gamma^5)_{cb}}{2} \right)$
$\bar{u}_{ap}$ $b_{bq}$ $\rho^+_{\mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot Vub \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{u}_{ap}$ $b_{bq}$ $W^{+}_{\mu}$	$-\frac{1}{2}\frac{\sqrt{2}\cdot Vub\cdot e}{\sin\theta_w}\cdot\delta_{pq}\gamma^{\mu}_{ac}\frac{(1-\gamma^5)_{cb}}{2}$
$ \bar{u}_{ap}  d_{bq}  \rho^+_{\ \mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot Vud \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1 - \gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$\bar{u}_{ap}$ $d_{bq}$ $W^{+}_{\mu}$	$-\frac{1}{2}\frac{\sqrt{2}\cdot Vud\cdot e}{\sin\theta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$ \bar{u}_{ap}  s_{bq}  \rho^+_{\ \mu}$	$-\frac{1}{2} \frac{M_W \cdot \sqrt{2} \cdot Vus \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$ \bar{u}_{ap}  s_{bq}  W^+_{\ \mu}$	$-\frac{1}{2}\frac{\sqrt{2}\cdot Vus\cdot e}{\sin\theta_w}\cdot\delta_{pq}\gamma_{ac}^{\mu}\frac{(1-\gamma^5)_{cb}}{2}$
$\bar{u}_{ap}$ $u_{bq}$ $A_{\mu}$	$-\frac{2}{3}e\delta_{pq}\gamma^{\mu}_{ac}\cdot\delta_{cb}$
$  \bar{u}_{ap}  u_{bq}  \omega_{\mu}$	$\frac{1}{6} \frac{M_W \cdot a \cdot e}{\cos \theta_w^2 \cdot M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} (3M_\rho^2 \cdot \sin \theta_w^2 \cdot \frac{(1 - \gamma^5)_{cb}}{2} - 2M_\rho^2 \cdot \frac{(1 - \gamma^5)_{cb}}{2}$
	$-2M_W^2 \cdot \sin\theta_w^2 \cdot a^2 \cdot \frac{(1-\gamma^5)_{cb}}{2} + 12M_{\rho}^2 \cdot \sin\theta_w^2 \cdot \frac{(1+\gamma^5)_{cb}}{2} - 8M_{\rho}^2 \cdot \frac{(1+\gamma^5)_{cb}}{2}$
	$-8M_W^2 \cdot \sin\theta_w^2 \cdot a^2 \cdot \frac{(1+\gamma^5)_{cb}}{2})$
$\bar{u}_{ap}$ $u_{bq}$ $\rho^0_{\mu}$	$-\frac{1}{2} \frac{M_W \cdot a \cdot e}{M_\rho^3 \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} \frac{(1-\gamma^5)_{cb}}{2} (M_\rho^2 + 2M_W^2 a^2)$
$  \bar{u}_{ap}  u_{bq}  Z_{\mu}$	$\frac{1}{6} \frac{e}{\cos \theta_w \cdot \sin \theta_w} \delta_{pq} \gamma_{ac}^{\mu} (4 \sin \theta_w^2 \cdot \delta_{cb} - 3 \frac{(1 - \gamma^5)_{cb}}{2})$
1	$\frac{\cos\theta_w \cdot e}{\sin\theta_w \cdot M_{\rho^2}} (M_{\rho^2} \cdot p_1^{\nu} g^{\mu\rho} - M_{\rho^2} \cdot p_1^{\rho} g^{\mu\nu} - M_{\rho^2} \cdot p_2^{\mu} g^{\nu\rho} + M_{\rho^2} \cdot p_2^{\rho} g^{\mu\nu} + M_{\rho^2} \cdot p_3^{\mu} g^{\nu\rho}$
	$-M_{\rho}^{2} \cdot p_{3}^{\nu} g^{\mu\rho} + M_{W}^{2} \cdot a^{2} \cdot p_{1}^{\nu} g^{\mu\rho} - M_{W}^{2} \cdot a^{2} \cdot p_{1}^{\rho} g^{\mu\nu} - M_{W}^{2} \cdot a^{2} \cdot p_{2}^{\mu} g^{\nu\rho} + M_{W}^{2} \cdot a^{2} \cdot p_{2}^{\rho} g^{\mu\nu}$

Fields in the vertex	Variational derivative of Lagrangian by fields
	$+M_W^2 \cdot a^2 \cdot p_3^{\mu} g^{\nu\rho} - M_W^2 \cdot a^2 \cdot p_3^{\nu} g^{\mu\rho})$
$A_{\mu}  A_{\nu}  \rho^{+}{}_{\rho}  \rho^{-}{}_{\sigma}$	$-\frac{e^2}{M_{\rho^2}}(2M_W^2 \cdot a^2 \cdot g^{\mu\nu}g^{\rho\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\rho}g^{\nu\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma}g^{\nu\rho})$
	$+2M_{\rho}^{2}\cdot g^{\mu\nu}g^{\rho\sigma}-M_{\rho}^{2}\cdot g^{\mu\rho}g^{\nu\sigma}-M_{\rho}^{2}\cdot g^{\mu\sigma}g^{\nu\rho})$
$A_{\mu}  A_{\nu}  W^{+}{}_{\rho}  W^{-}{}_{\sigma}$	$-\frac{e^2}{M_{\rho^2}}(2M_{\rho^2} \cdot g^{\mu\nu}g^{\rho\sigma} - M_{\rho^2} \cdot g^{\mu\rho}g^{\nu\sigma} - M_{\rho^2} \cdot g^{\mu\sigma}g^{\nu\rho} + 2M_W^2 \cdot a^2 \cdot g^{\mu\nu}g^{\rho\sigma})$
	$-M_W^2 \cdot a^2 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho})$
$A_{\mu}  \rho^{+}_{\ \nu}  \rho^{-}_{\ \rho}  \rho^{0}_{\ \sigma}$	$\frac{e^2}{M_{\rho^3} \cdot M_W \cdot \sin \theta_w \cdot a} (2M_W^4 \cdot a^4 \cdot g^{\mu\sigma} g^{\nu\rho} - M_W^4 \cdot a^4 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^4 \cdot a^4 \cdot g^{\mu\nu} g^{\rho\sigma})$
	$-2M_{\rho}^{4} \cdot g^{\mu\sigma}g^{\nu\rho} + M_{\rho}^{4} \cdot g^{\mu\rho}g^{\nu\sigma} + M_{\rho}^{4} \cdot g^{\mu\nu}g^{\rho\sigma})$
$A_{\mu}  \rho^{+}_{\ \nu}  \rho^{-}_{\ \rho}  Z_{\sigma}$	$-\frac{\cos\theta_w \cdot e^2}{M_\rho^2 \cdot \sin\theta_w} (2M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho} - M_W^2 \cdot a^2 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma})$
	$+2M_{\rho}^{2}\cdot g^{\mu\sigma}g^{\nu\rho}-M_{\rho}^{2}\cdot g^{\mu\rho}g^{\nu\sigma}-M_{\rho}^{2}\cdot g^{\mu\nu}g^{\rho\sigma})$
$A_{\mu}  \rho^{+}_{\ \nu}  \rho^{0}_{\ \rho}  W^{-}_{\ \sigma}$	$-\frac{e^2}{M_{\rho^2 \cdot \sin \theta_w}} (2M_W^2 \cdot a^2 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho} - M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma})$
	$+2M_{\rho}^{2}\cdot g^{\mu\rho}g^{\nu\sigma} - M_{\rho}^{2}\cdot g^{\mu\sigma}g^{\nu\rho} - M_{\rho}^{2}\cdot g^{\mu\nu}g^{\rho\sigma})$
$A_{\mu}  \rho^{-}_{\ \nu}  \rho^{0}_{\ \rho}  W^{+}_{\ \sigma}$	$-\frac{e^2}{M_{\rho^2 \cdot \sin \theta_w}} (2M_W^2 \cdot a^2 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho})$
	$+2M_{\rho}^{2} \cdot g^{\mu\rho}g^{\nu\sigma} - M_{\rho}^{2} \cdot g^{\mu\nu}g^{\rho\sigma} - M_{\rho}^{2} \cdot g^{\mu\sigma}g^{\nu\rho})$
$A_{\mu}  W^{+}_{\nu}  W^{-}_{\rho}  Z_{\sigma}$	Sill ow 111p
	$-M_W^2 \cdot a^2 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma})$
H $H$ $H$	$-rac{3}{4}rac{MH^2\cdot e^2}{M_W^2\cdot \sin heta_w^2}$
$H$ $H$ $\omega_{\mu}$ $\omega_{ u}$	$\frac{1}{2} \frac{M_W^2 \cdot \sin \theta_w^2 \cdot a^2 \cdot e^2}{\cos \theta_w^4 \cdot M_\rho^2} \cdot g^{\mu\nu}$
$H$ $H$ $\omega_{\mu}$ $\rho^{0}_{\nu}$	$-rac{1}{2}rac{M_W^2\cdot a^2\cdot e^2}{\cos heta_w^2\cdot M_ ho^2}\cdot g^{\mu u}$
$H$ $H$ $\omega_{\mu}$ $Z_{ u}$	$rac{1}{2}rac{M_W\cdot a\cdot e^2}{\cos heta_w{}^3\cdot M_ ho}\cdot g^{\mu u}$
$H$ $H$ $\rho^+_{\mu}$ $\rho^{\nu}$	$rac{1}{2}rac{M_W^2\cdot a^2\cdot e^2}{M_ ho^2\cdot \sin heta_w^2}\cdot g^{\mu u}$
$H$ $H$ $\rho^+_{\mu}$ $W^{\nu}$	$-rac{1}{2}rac{M_W\cdot a\cdot e^2}{M_ ho\cdot\sin heta_w^2}\cdot g^{\mu u}$
$H$ $H$ $\rho^{\mu}$ $W^+_{\nu}$	$-rac{1}{2}rac{M_W\cdot a\cdot e^2}{M_ ho\cdot\sin heta_w^2}\cdot g^{\mu u}$
$H H \rho^0_{\mu} \rho^0_{\nu}$	$\left  rac{1}{2} rac{M_W^2 \cdot a^2 \cdot e^2}{M_ ho^2 \cdot \sin  heta_w^2} \cdot g^{\mu u}  ight.$
$H$ $H$ $\rho^0_{\mu}$ $Z_{\nu}$	$-\frac{1}{2} \frac{M_W \cdot a \cdot e^2}{\cos \theta_w \cdot M_\rho \cdot \sin \theta_w^2} \cdot g^{\mu\nu}$
$\begin{array}{ c c c c c c }\hline H & H & W^+_{\ \mu} & W^{\ \nu} \\ \hline \end{array}$	$\frac{1}{2} \frac{e^2}{\sin \theta_w^2} \cdot g^{\mu \nu}$

Fields in the vertex	Variational derivative of Lagrangian by fields
$H$ $H$ $Z_{\mu}$ $Z_{\nu}$	$\frac{1}{2} \frac{e^2}{\cos \theta_w^2 \cdot \sin \theta_w^2} \cdot g^{\mu\nu}$
$\rho^+_{\mu}$ $\rho^+_{\nu}$ $\rho^{\rho}$ $\rho^{\sigma}$	$\frac{e^2}{M_{\rho}^4 \cdot M_W^2 \cdot \sin \theta_w^2 \cdot a^2} (2M_W^6 \cdot a^6 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^6 \cdot a^6 \cdot g^{\mu\sigma} g^{\nu\rho} + 2M_{\rho}^6 \cdot g^{\mu\nu} g^{\rho\sigma}$
	$-M_{\rho}^{6} \cdot g^{\mu\sigma}g^{\nu\rho} - M_{W}^{6} \cdot a^{6} \cdot g^{\mu\rho}g^{\nu\sigma} - M_{\rho}^{6} \cdot g^{\mu\rho}g^{\nu\sigma})$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ -\frac{e^2}{M_{\rho^3} \cdot M_W \sin \theta_w^2 \cdot a} (2M_W^4 \cdot a^4 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^4 \cdot a^4 \cdot g^{\mu\sigma} g^{\nu\rho} - M_W^4 \cdot a^4 \cdot g^{\mu\rho} g^{\nu\sigma} $
	$-2M_{\rho}^{4} \cdot g^{\mu\nu}g^{\rho\sigma} + M_{\rho}^{4} \cdot g^{\mu\sigma}g^{\nu\rho} + M_{\rho}^{4} \cdot g^{\mu\rho}g^{\nu\sigma})$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{e^2}{M_{\rho^2 \cdot \sin \theta_w^2}} (2M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho} + 2M_{\rho^2}^2 \cdot g^{\mu\nu} g^{\rho\sigma})$
	$-M_{\rho}^{2} \cdot g^{\mu\sigma}g^{\nu\rho} - M_{W}^{2} \cdot a^{2} \cdot g^{\mu\rho}g^{\nu\sigma} - M_{\rho}^{2} \cdot g^{\mu\rho}g^{\nu\sigma})$
$\rho^+_{\mu}  \rho^{\nu}  \rho^{\rho}  W^+_{\sigma}$	$ -\frac{e^2}{M_{\rho^3} \cdot M_W \cdot \sin \theta_w^2 \cdot a} (2M_W^4 \cdot a^4 \cdot g^{\mu\sigma} g^{\nu\rho} - M_W^4 \cdot a^4 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^4 \cdot a^4 \cdot g^{\mu\nu} g^{\rho\sigma} ) $
	$-2M_{\rho}^{4} \cdot g^{\mu\sigma}g^{\nu\rho} + M_{\rho}^{4} \cdot g^{\mu\rho}g^{\nu\sigma} + M_{\rho}^{4} \cdot g^{\mu\nu}g^{\rho\sigma})$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ -\frac{e^2}{M_{\rho^4} \cdot M_W^2 \cdot \sin \theta_w^2 \cdot a^2} (2M_W^6 \cdot a^6 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^6 \cdot a^6 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^6 \cdot a^6 \cdot g^{\mu\sigma} g^{\nu\rho} ) $
	$+2M_{\rho}{}^{6}\cdot g^{\mu\nu}g^{\rho\sigma} - M_{\rho}{}^{6}\cdot g^{\mu\rho}g^{\nu\sigma} - M_{\rho}{}^{6}\cdot g^{\mu\sigma}g^{\nu\rho})$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{\cos\theta_w \cdot e^2}{M_{\rho^3} \cdot M_W \cdot \sin\theta_w^2 \cdot a} (2M_W^4 \cdot a^4 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^4 \cdot a^4 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^4 \cdot a^4 \cdot g^{\mu\sigma} g^{\nu\rho}$
	$-2M_{\rho}^{4} \cdot g^{\mu\nu}g^{\rho\sigma} + M_{\rho}^{4} \cdot g^{\mu\rho}g^{\nu\sigma} + M_{\rho}^{4} \cdot g^{\mu\sigma}g^{\nu\rho})$
$\rho^{+}_{\mu}  \rho^{-}_{\nu}  W^{+}_{\rho}  W^{-}_{\sigma}$	$\frac{e^2}{M_{\rho^2 \cdot \sin \theta_w^2}} (2M_W^2 \cdot a^2 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho} - M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma})$
	$+2M_{\rho}^{2}\cdot g^{\mu\rho}g^{\nu\sigma}-M_{\rho}^{2}\cdot g^{\mu\sigma}g^{\nu\rho}-M_{\rho}^{2}\cdot g^{\mu\nu}g^{\rho\sigma})$
$\rho^+_{\mu}  \rho^{\nu}  Z_{\rho}  Z_{\sigma}$	$-\frac{\cos\theta_w^2 \cdot e^2}{M_{\rho^2} \cdot \sin\theta_w^2} (2M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho})$
	$+2M_{\rho}^{2}\cdot g^{\mu\nu}g^{\rho\sigma}-M_{\rho}^{2}\cdot g^{\mu\rho}g^{\nu\sigma}-M_{\rho}^{2}\cdot g^{\mu\sigma}g^{\nu\rho})$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{e^2}{M_{\rho^3} \cdot M_W \cdot \sin \theta_w^2 \cdot a} (2M_W^4 \cdot a^4 \cdot g^{\mu\sigma} g^{\nu\rho} - M_W^4 \cdot a^4 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^4 \cdot a^4 \cdot g^{\mu\rho} g^{\nu\sigma}$
	$-2M_{\rho}^{4} \cdot g^{\mu\sigma}g^{\nu\rho} + M_{\rho}^{4} \cdot g^{\mu\nu}g^{\rho\sigma} + M_{\rho}^{4} \cdot g^{\mu\rho}g^{\nu\sigma})$
$\left \begin{array}{cccc} \rho^+{}_{\mu} & \rho^0{}_{\nu} & W^-{}_{\rho} & Z_{\sigma} \end{array}\right $	$-\frac{\cos\theta_w \cdot e^2}{M_{\rho^2} \cdot \sin\theta_w^2} (2M_W^2 \cdot a^2 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho})$
	$+2M_{\rho}^{2} \cdot g^{\mu\rho}g^{\nu\sigma} - M_{\rho}^{2} \cdot g^{\mu\nu}g^{\rho\sigma} - M_{\rho}^{2} \cdot g^{\mu\sigma}g^{\nu\rho})$
	$\frac{e^2}{M_{\rho^2 \cdot \sin \theta_w^2}} (2M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho} + 2M_{\rho^2}^2 \cdot g^{\mu\nu} g^{\rho\sigma})$
	$-M_{\rho}^{2} \cdot g^{\mu\sigma}g^{\nu\rho} - M_{W}^{2} \cdot a^{2} \cdot g^{\mu\rho}g^{\nu\sigma} - M_{\rho}^{2} \cdot g^{\mu\rho}g^{\nu\sigma})$
	$\frac{e^2}{M_{\rho^3} \cdot M_W \cdot \sin \theta_w^2 \cdot a} (2M_W^4 \cdot a^4 \cdot g^{\mu\sigma} g^{\nu\rho} - M_W^4 \cdot a^4 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^4 \cdot a^4 \cdot g^{\mu\nu} g^{\rho\sigma}$
	$-2M_{\rho}{}^4 \cdot g^{\mu\sigma}g^{\nu\rho} + M_{\rho}{}^4 \cdot g^{\mu\rho}g^{\nu\sigma} + M_{\rho}{}^4 \cdot g^{\mu\nu}g^{\rho\sigma})$
Fields in the vertex	Variational derivative of Lagrangian by fields

Fields in the vertex	Variational derivative of Lagrangian by fields
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$-\frac{\cos\theta_w \cdot e^2}{M_{\rho^2} \cdot \sin\theta_w^2} (2M_W^2 \cdot a^2 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho} - M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma})$
	$+2M_{\rho}^{2}\cdot g^{\mu\rho}g^{\nu\sigma} - M_{\rho}^{2}\cdot g^{\mu\sigma}g^{\nu\rho} - M_{\rho}^{2}\cdot g^{\mu\nu}g^{\rho\sigma})$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$-\frac{e^2}{M_{\rho^2 \cdot \sin \theta_w^2}} (2M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\rho} g^{\nu\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho})$
	$+2M_{\rho}^{2}\cdot g^{\mu\nu}g^{\rho\sigma}-M_{\rho}^{2}\cdot g^{\mu\rho}g^{\nu\sigma}-M_{\rho}^{2}\cdot g^{\mu\sigma}g^{\nu\rho})$
$W^{+}_{\mu} W^{+}_{\nu} W^{-}_{\rho} W^{-}_{\sigma}$	$\frac{e^2}{\sin\theta_w^2 \cdot M_{\rho^2}} (2M_{\rho^2} \cdot g^{\mu\nu} g^{\rho\sigma} - M_{\rho^2} \cdot g^{\mu\sigma} g^{\nu\rho} + 2M_W^2 \cdot a^2 \cdot g^{\mu\nu} g^{\rho\sigma} - M_W^2 \cdot a^2 \cdot g^{\mu\sigma} g^{\nu\rho})$
	$-M_{\rho}^{2} \cdot g^{\mu\rho}g^{\nu\sigma} - M_{W}^{2} \cdot a^{2} \cdot g^{\mu\rho}g^{\nu\sigma})$
$W^+_{\mu} W^{\nu} Z_{\rho} Z_{\sigma}$	$-\frac{\cos\theta_{w}^{2} \cdot e^{2}}{\sin\theta_{w}^{2} \cdot M_{\sigma}^{2}} (2M_{\rho}^{2} \cdot g^{\mu\nu}g^{\rho\sigma} - M_{\rho}^{2} \cdot g^{\mu\rho}g^{\nu\sigma} - M_{\rho}^{2} \cdot g^{\mu\sigma}g^{\nu\rho} + 2M_{W}^{2} \cdot a^{2} \cdot g^{\mu\nu}g^{\rho\sigma}$