

$$- - - h^0 \text{ --- } Z = \frac{ig}{\cos \theta_w} M_Z,$$

$$\begin{array}{c}
 W^+ \\
 \text{---} h^0 \text{---} \left\{ \begin{array}{l} \text{wavy line} \\ \text{wavy line} \end{array} \right. = igM_W, \\
 W^-
 \end{array}$$

A Feynman diagram illustrating the mixing of a scalar field  $h^0$  and a fermion field  $\psi$ . On the left, a horizontal dashed line is labeled  $h^0$ . This line meets a vertex. From this vertex, two solid lines branch out: one upwards and one downwards, both labeled  $\psi$ . To the right of the vertex, there is an equals sign followed by a solid horizontal line labeled  $\frac{im_\psi}{v}$ .