

## Questions (meeting 8)

1. What are the tree level EW diagrams that contribute to

$$\nu\nu \rightarrow \nu\nu$$

$$\bar{\nu}\nu \rightarrow \bar{e}e$$

$$\bar{e}e \rightarrow \bar{e}e$$

$$\bar{\nu}e \rightarrow \bar{\nu}e$$

?

2. What are the relative strengths of the vertices

$$H\bar{e}e \quad Z\bar{e}e \text{ ?}$$

3. What are the relative strengths of the vertices

$$H\bar{e}e \quad H\bar{t}t \text{ ?}$$

4. Roughly, what are the relative strengths of the vertices

$$(\text{gluon})\bar{t}t \quad \gamma\bar{t}t \quad Z\bar{t}t \quad W\bar{t}b \quad H\bar{t}t \text{ ?}$$