

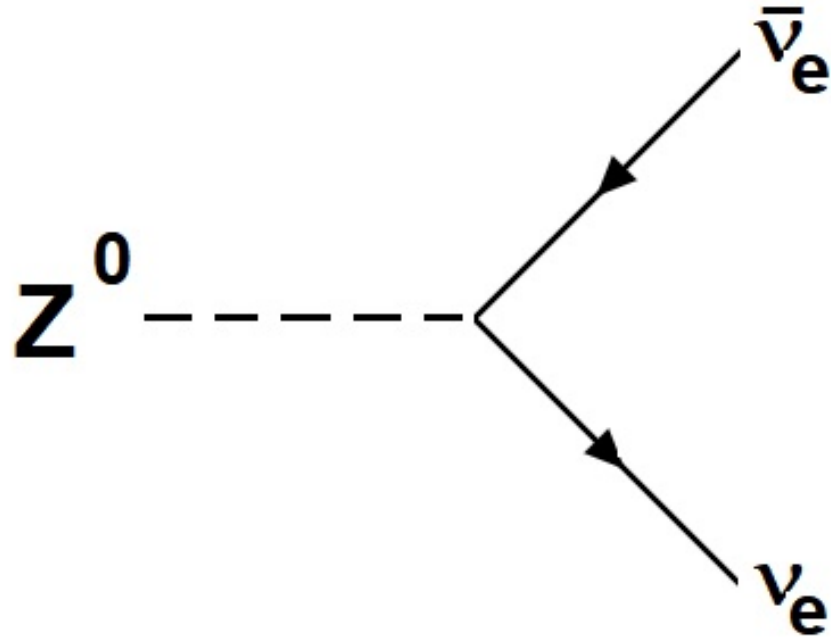


## **PARTICLE TRANSFORMATIONS**

Gauge boson decays

# Feynman Diagram:

Decay B-01



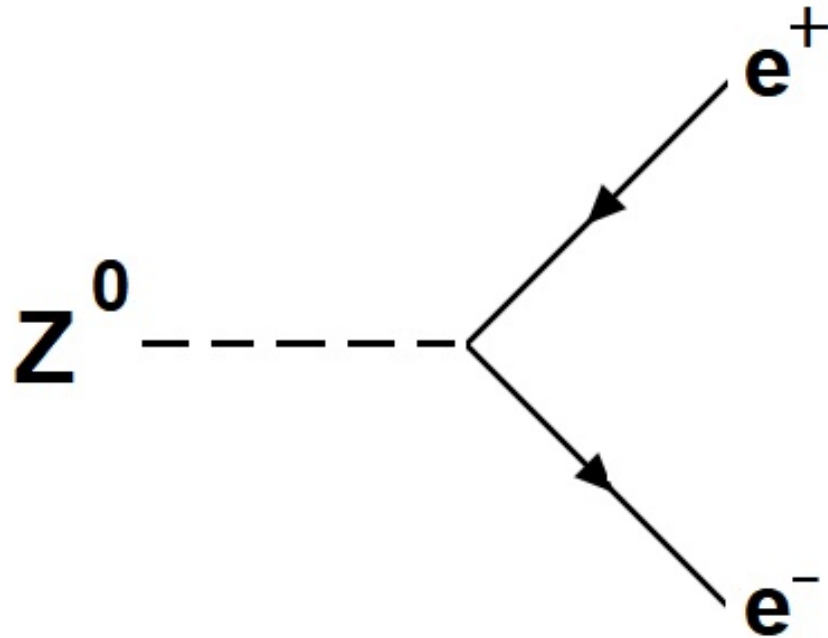
*Description:  
A Z boson transforms  
into an antielectron  
neutrino and an  
electron neutrino.*

## Scratchpad:

Before decay	After decay

# Feynman Diagram:

Decay B-02



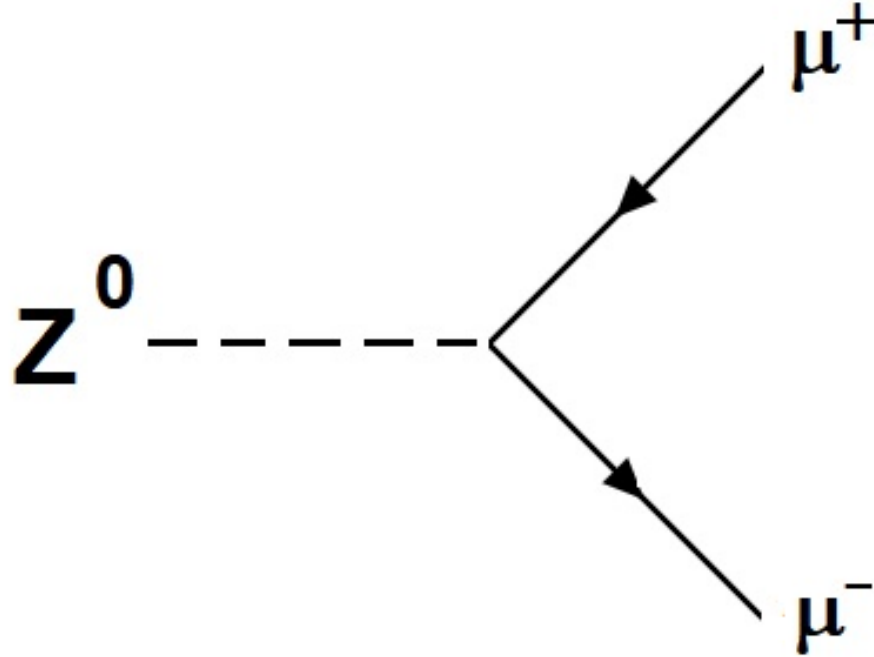
*Describe this transformation:*

## Scratchpad:

Before decay	After decay

# Feynman Diagram:

Decay B-03



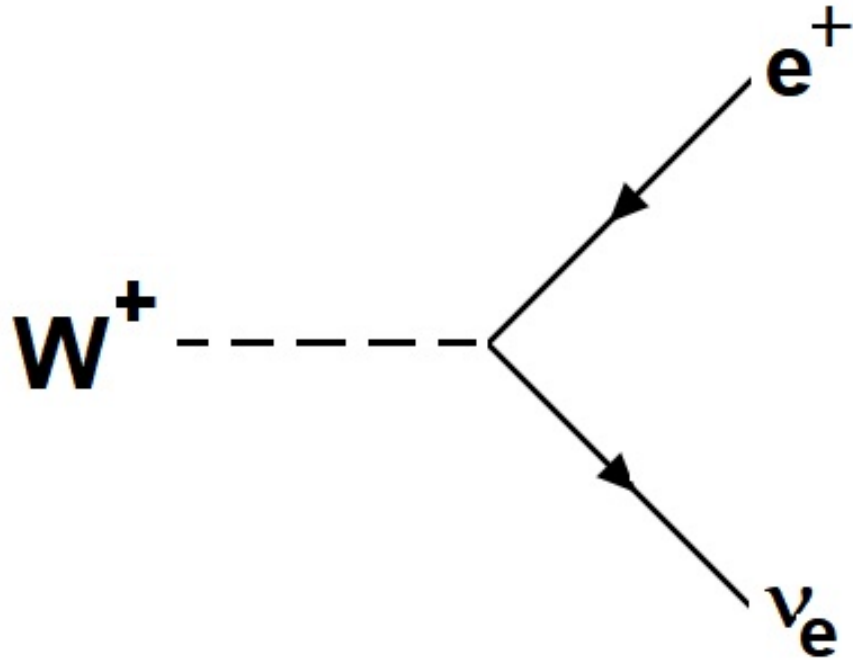
*Describe this transformation:*

## Scratchpad:

Before decay	After decay

# Feynman Diagram:

Decay B-04



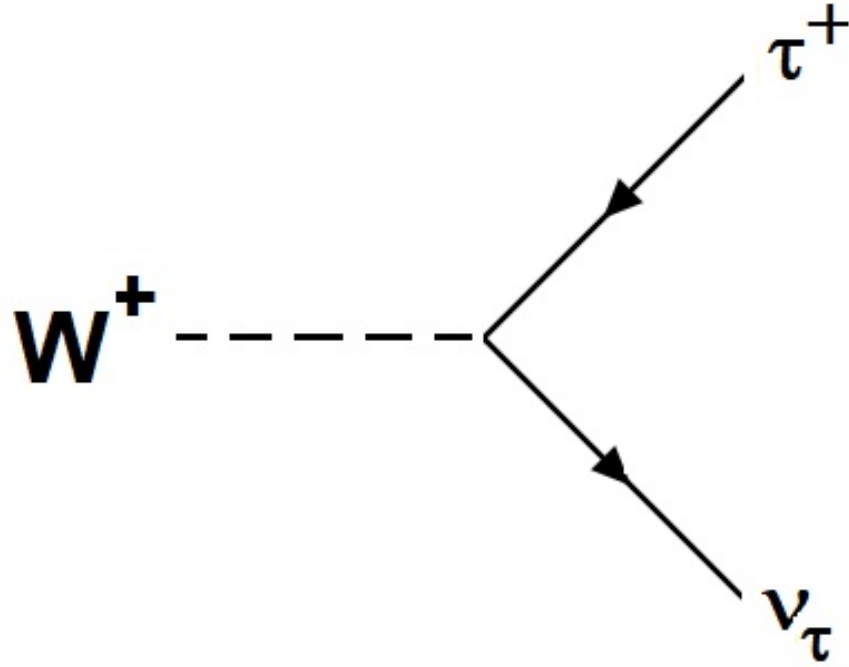
*Describe this transformation:*

## Scratchpad:

Before decay	After decay

# Feynman Diagram:

Decay B-05



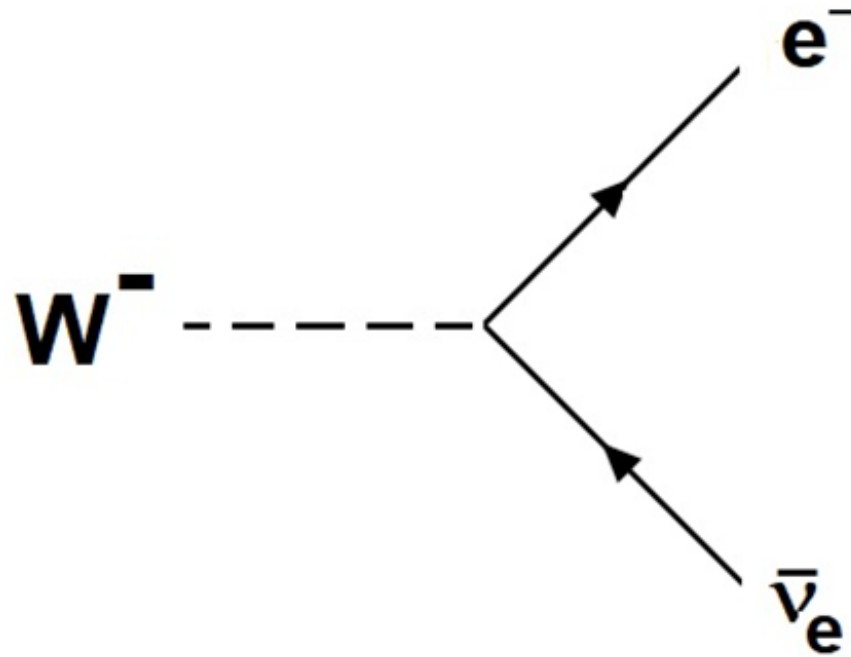
*Describe this transformation:*

## Scratchpad:

Before decay	After decay

# Feynman Diagram:

Decay B-06



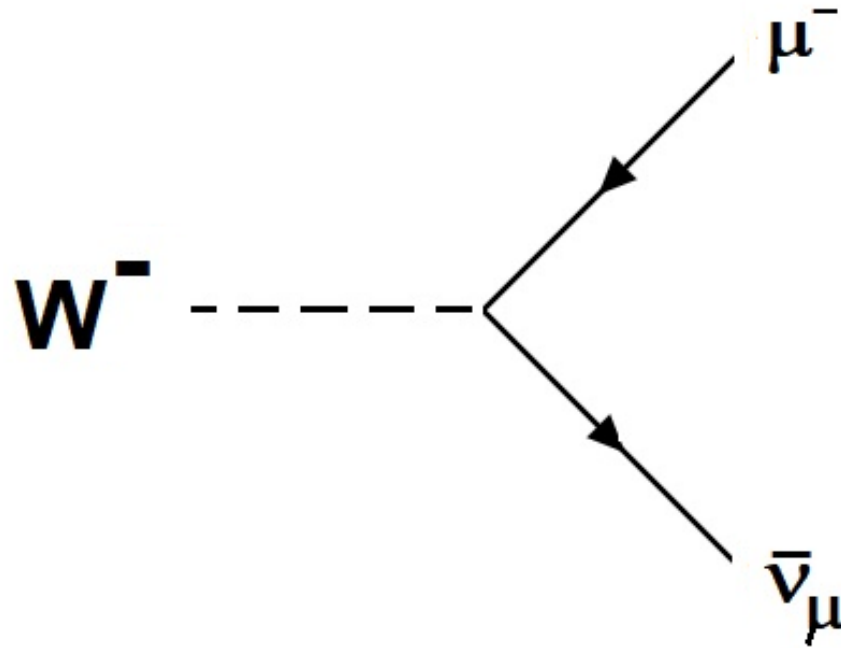
*Describe this transformation:*

## Scratchpad:

Before decay	After decay

# Feynman Diagram:

Decay B-07



*Describe this transformation:*

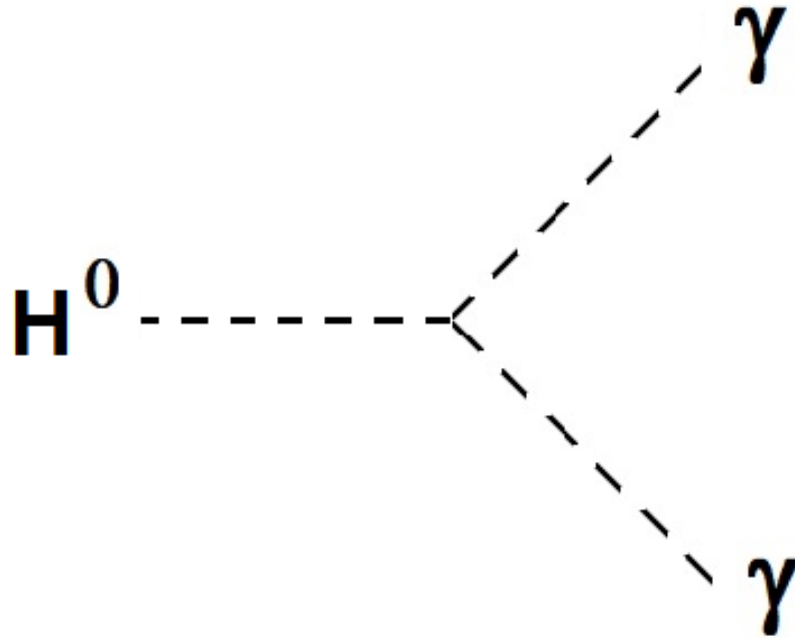
## Scratchpad:

Before decay	After decay



# Feynman Diagram:

Decay B-08



*[Note: the Higgs is not a gauge boson but rather a special scalar boson.]*  
*Describe this transformation:*

## Scratchpad:

Before decay	After decay