

# Study of $H \rightarrow WW^*$

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# Introduction

## Previous meeting

- The maximum track energy was used for the selection cut.
  - The signal significance became 7.5.
- The jet angle was checked at  $W$  rest-frame.
  - The distributions were almost flat.
  - The angular distribution might be incorrect in ILD data.

## Today's topic

- Investigation of angle of the two decay plains.

# Angle between decay plains

Angle between down type quarks was investigated in Higgs rest-frame with MC true information.

- ILD data has a peak at 0 deg..
  - Physsim data has a peak at 180 deg..
- My mistake or problem in ILD data?

The distribution will be checked by DST files made with physsim data.

