

Weekly Report

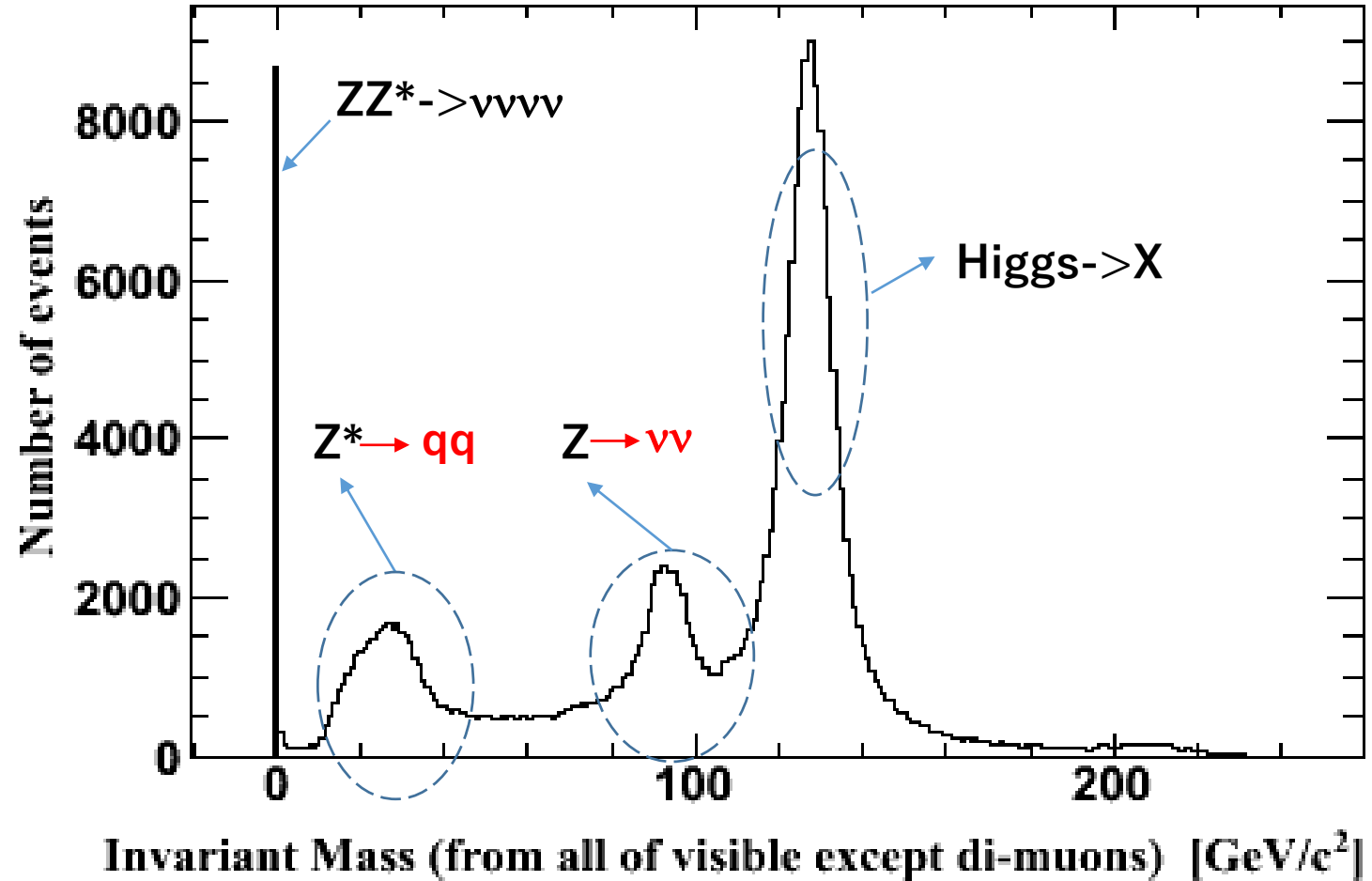
CMOS pixel sensor

- Attend a test beam (7/20-21) in IHEP synchrotron facility
- Prepare the firmware for “B”-matrix
 - ➡ After the new bonding board is delivered, we will test it (next-next week)

CEPC Higgs- \rightarrow ZZ* analysis

- Checking the background events
- A meeting (“Higgs physics toward CDR”) on 7/26
 - ➡ Try to cover the other side : (On-shell)Z- \rightarrow qq (Of-shell)Z*- \rightarrow vv
 - ➡ Check the other Higgs channel , such as Higgs - \rightarrow WW*

Histograms from $H \rightarrow ZZ^*$ analysis



Suggestion is to change : $Z^* \rightarrow \nu\nu$, $Z \rightarrow qq$

Simple summary of July

[Plan and/or Expectations]

CEPC CMOS sensor

-- Preparation for B1-B8 (both firmware & hardware by TaoJia)

Status : fine.

-- At least connect the B1-B8 (no matter how the data are)

Status : not yet. We are waiting the new board.

-- Preparation toward the beam test @ DESY

Status : Maybe... but out of my control.

CEPC Higgs->ZZ* analysis

-- Running background samples as well

Status : Somehow. Keep updates.

-- Get first result of the signal-to-noise ratio

Status : Not reached. Need a little bit.

CEPC Higgs->invisible analysis

See Maoqiang's reports.