## Report on JGEM analysis 1

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Yesterday, our analysis program was updated on tracking method. So I have to reanalyze the data, but for today I haven't yet obtain any new results. I'd like to just report on our present problems.

#### Our situation Where were we?

Developing and using local analysis program, we have become to be able to

unpack raw data (This part is strongly dependent on the Lund monitor program.)
find hits

- •find tracks (for a single module)
- •fit tracks (for a single module)

#### Where are we?

For multi-module analysis, we are developing

track-finder which uses global coordinate
track-fitter which can cross over to another modules
Pad-alignment have not yet corrected.

# Where are we going?

• To use Marlin TPC in order to share data and analysis

(At this moment, we need outputs from the data of previous beam test as soon as possible in order to develop GEM modules for next beam test.)

### Event Display Samples

We use this event display in order to check fit result.



using only module-1 for tracking



using only module-3 for tracking



Present Problems

- I. Kappa(0T) problem
- 2. Pad Response problem (displacement at long drift distance)
- 3. Diffusion constant (0T) problem (disagreement with garfield)

I. Kappa(I/P) Problem



#### B=0T



# 2. Pad Response Problem B=IT



Still unclear where this displacement comes from.

According to H.Yamaguchi's report, we can't explain by only decreasing of B.

## 3. Diffusion constant (0T) problem





