Status - implementation of the $\gamma$ calibration

- **$\gamma$ calibrator from $\pi^0$ data**
  - E, $I_0$ parametrizations are available in the range of 70 MeV - 2 GeV for both data and MC sets run I - run IV since the last collaboration meeting.
  - code and database testing
  - E, $I_0$ needed as E, $\theta$ parametrizations
  - run our consistency checks, e.g. on $\mu\mu\gamma$ data
  - run on other applications, Neutrals group
  - done
  - done
  - in progress
  - to be done

- **Combined $\gamma$ calibrator from $\mu\mu\gamma$ and $\pi^0$ data**
  - Extend the $\gamma$ calibrator up to high energies for both data and MC (work in progress by J. Albrecht and J. Marks).
    - E, $I_0$ parametrizations for MC run I - IV
    - done
    - E, $I_0$ parametrizations for $\mu\mu\gamma$ data run I - IV
    - in progress
    - E, $I_0$ parametrizations for $\pi^0$ data run I - IV
    - in progress
    - combined parametrizations for $\mu\mu\gamma$ and $\pi^0$ data
    - in progress

- **Edge corrections**
  - Use the final parametrizations to generate the edge corrections.
Release of the current $\gamma$ calibration from $\pi^0$ data

Current calibration is only valid in the energy range 70 MeV – 2 GeV for both data and MC.

Use above 2 GeV the old scheme by putting both continuously together.

⇒ Large improvement up to 2 GeV.
⇒ For larger energies people get what they always had.

Replace the current parametrizations as soon as possible by the ones from the combined $\mu\mu\gamma$ and $\pi^0$ analysis.
Combined $MC_{\gamma}$ calibration

$E$ Parametrization of a combined $\pi^0$ and $\mu\mu\gamma$ dataset

Energy range: 70 MeV - 4 GeV