Status Report

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- Status

$$Acc * \epsilon * \epsilon_{\Xi tag} = \frac{N_{\Xi_c^0}(MC, Reco)}{N_{\Xi_c^0}(MC, Gen)}$$

$$|y|<0.5, \, e|y|<1.2$$
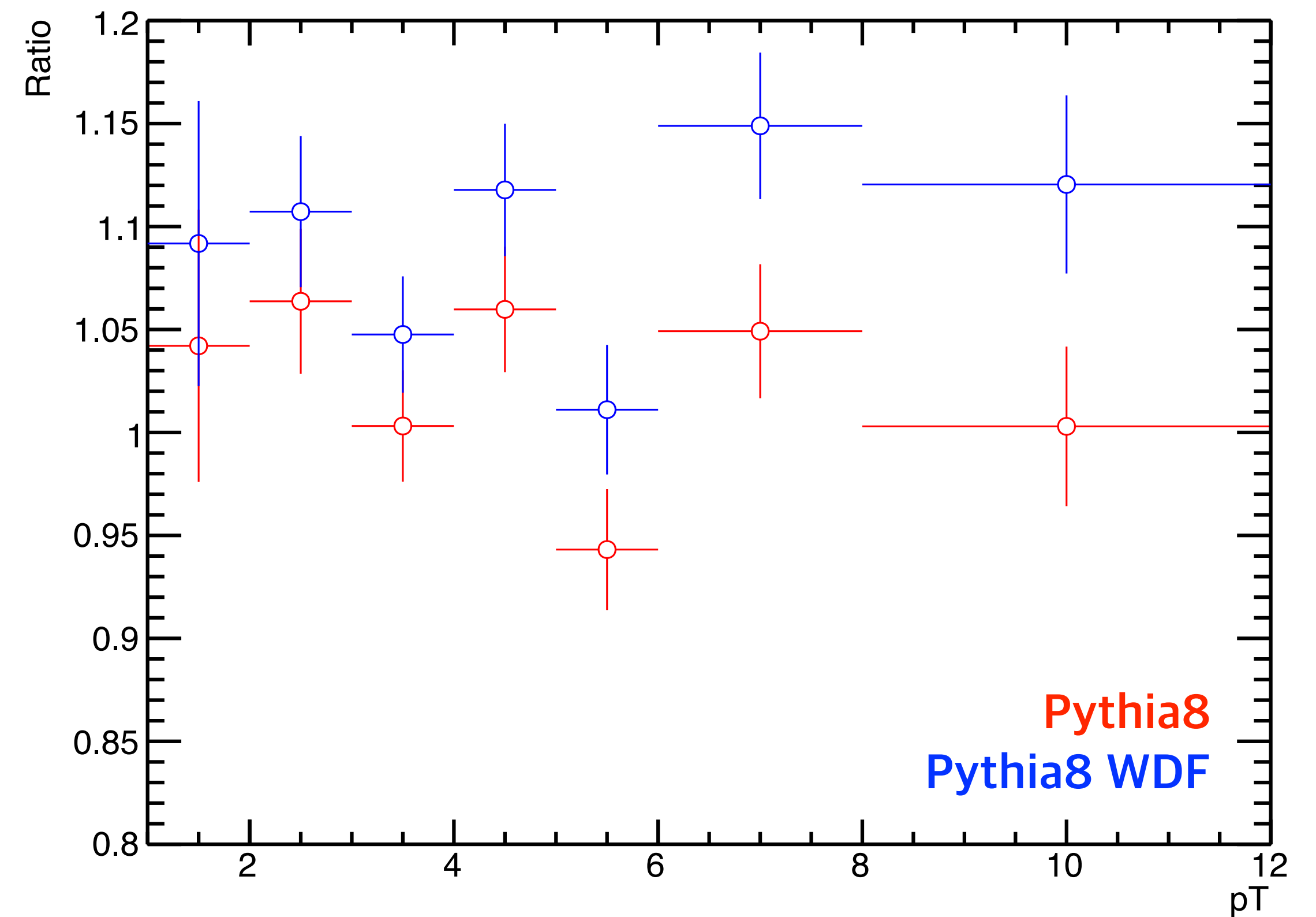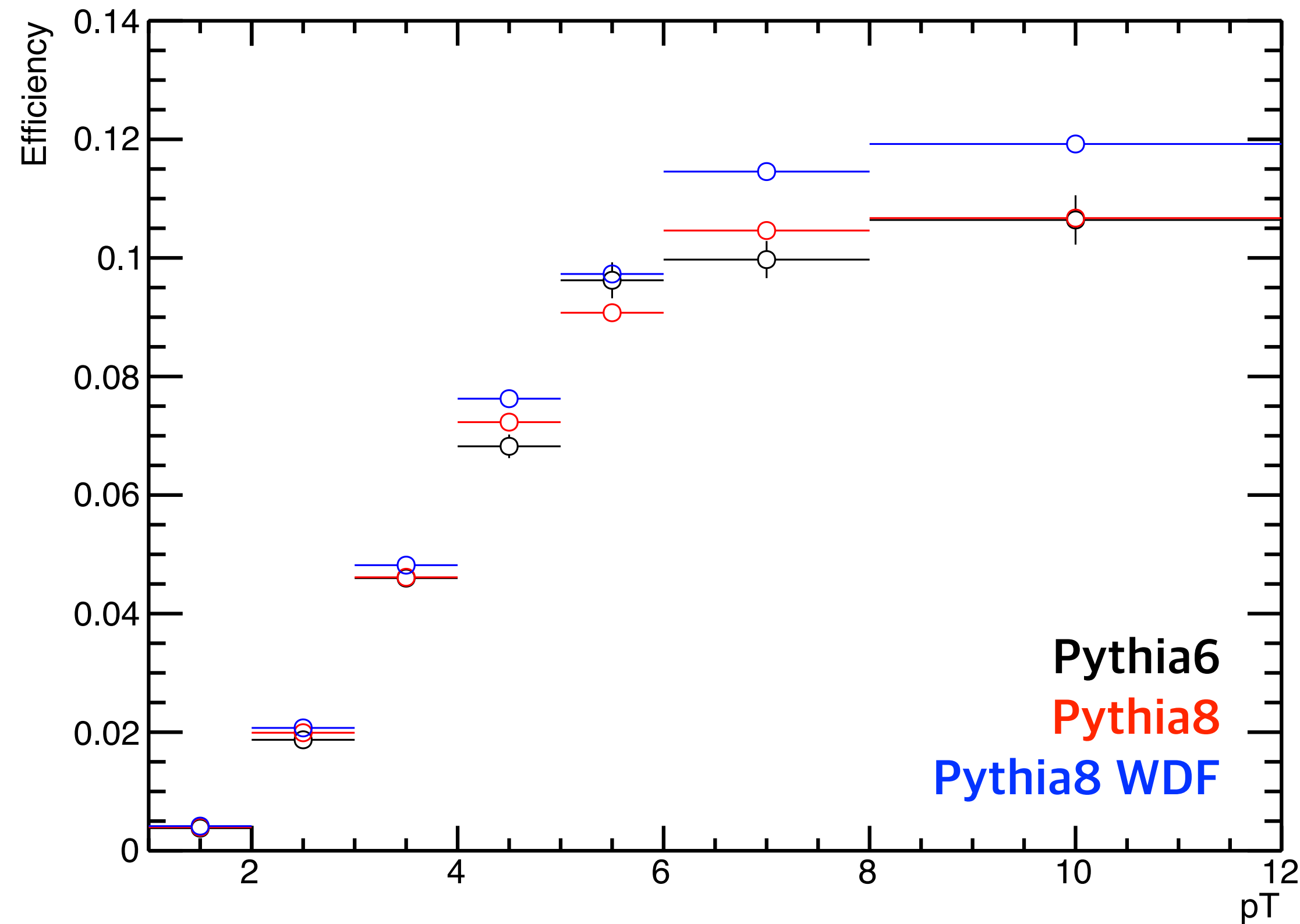
• **Efficiency comparison**

   • Rapidity cut (|y|<1.2) is applied to electrons comes from true Xic0 generated by Pythia8.

   • The difference is reduced from ~10% to ~5%.

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$$Acc * \epsilon * \epsilon_{\Xi tag} = \frac{N_{\Xi_c^0}(MC, Reco)}{N_{\Xi_c^0}(MC, Gen)}$$
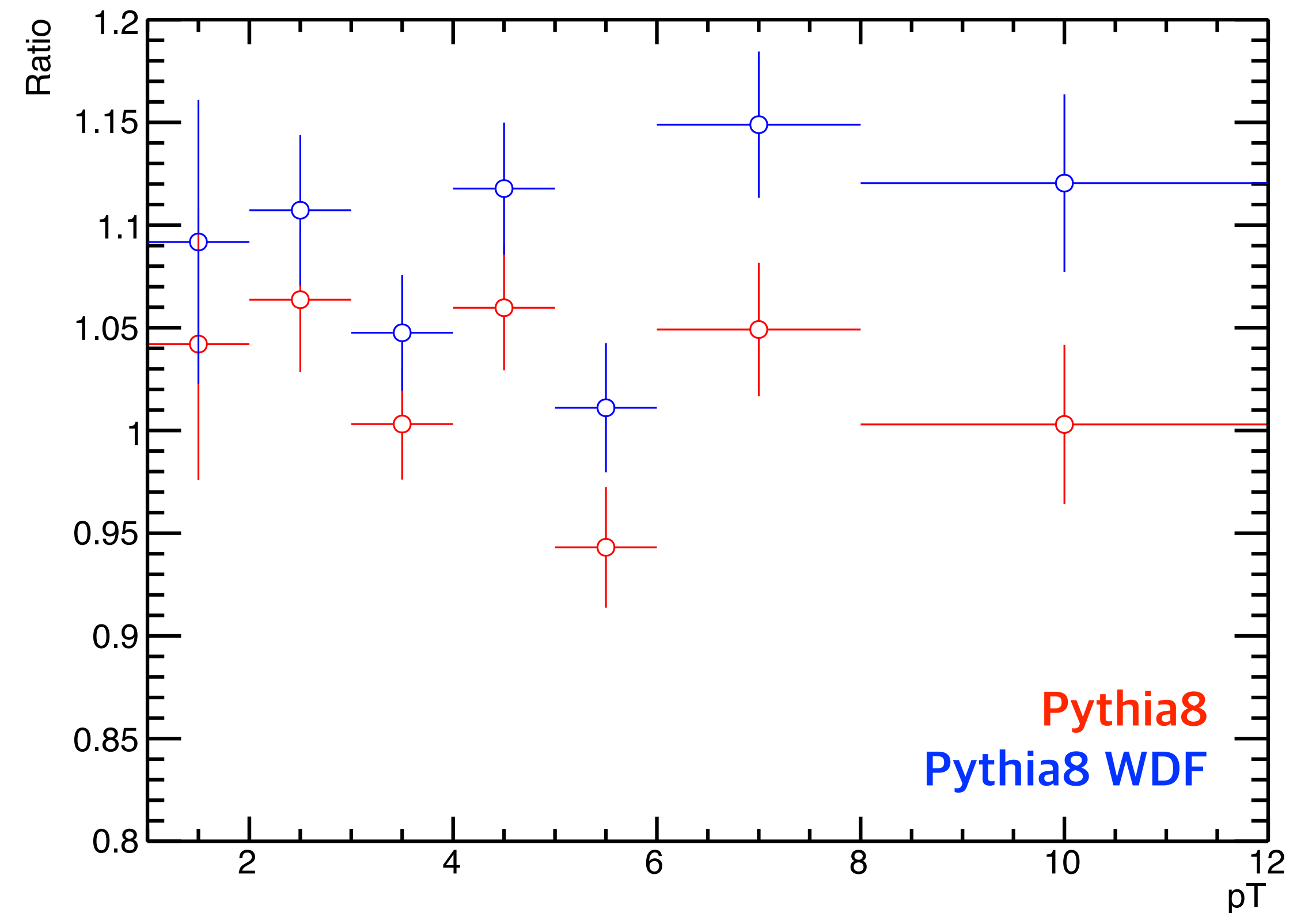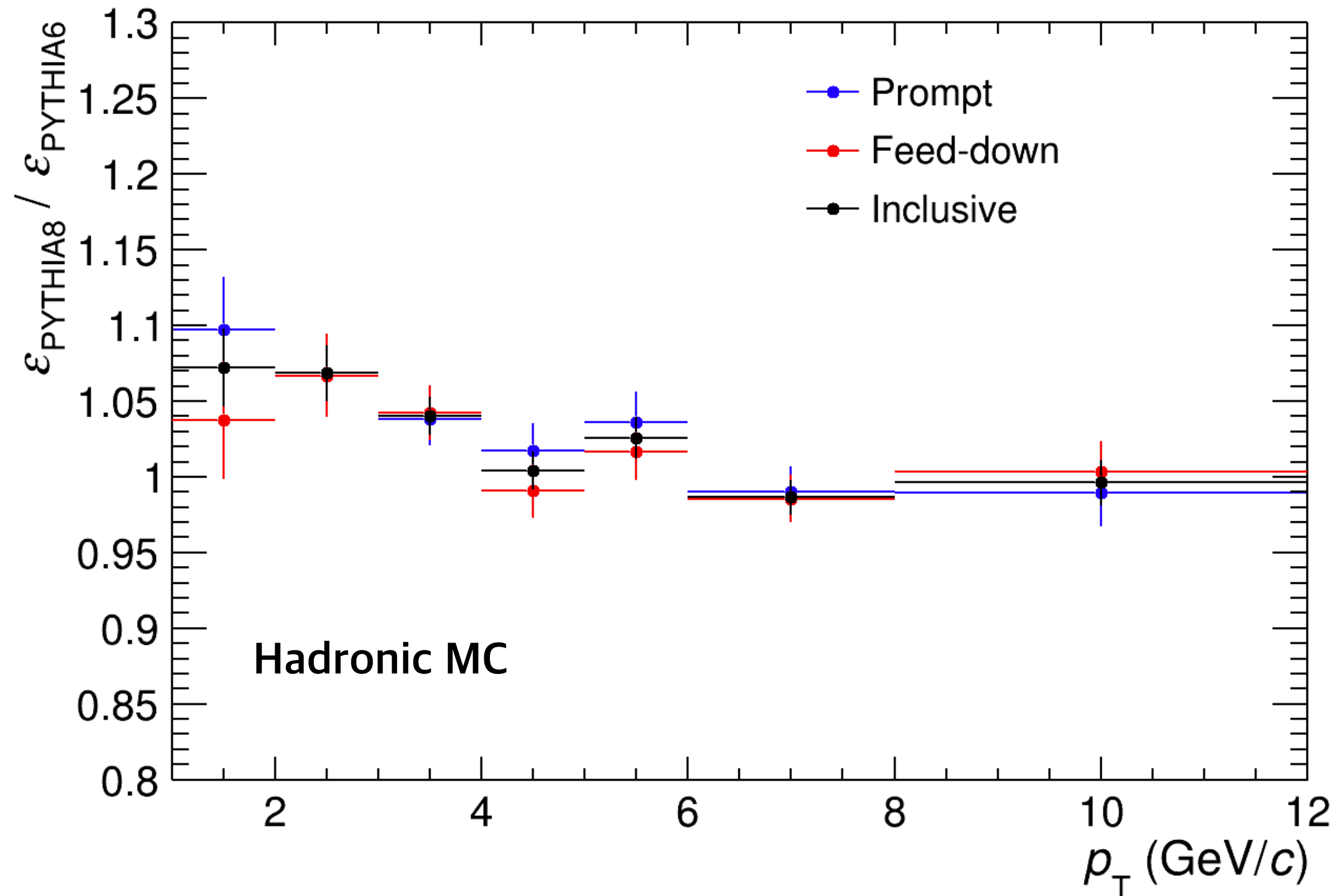$$\scriptsize |y|<0.5,\ e|y|<1.2$$

- **Efficiency comparison**

  - Rapidity cut (lyl<1.2) is applied to electrons comes from true Xic0 generated by Pythia8.

  - The difference is reduced from ~10% to ~5%.

  - The trend of ratio is similar with hadronic MC case.

Back up

- Status

$$Acc * \epsilon * \epsilon_{\Xi tag} = \frac{N_{\Xi_c{}^0}(MC, Reco)}{N_{\Xi_c{}^0}(MC, Gen)}\bigg|_{|y|<0.5,\ e|y|<1.2}$$

• **Efficiency comparison**

  • Rapidity cut (|y|<1.2) is applied to electrons comes from true Xic0 generated by Pythia8 and Pythia6.

  • The difference is reduced from ~10% to ~5%.