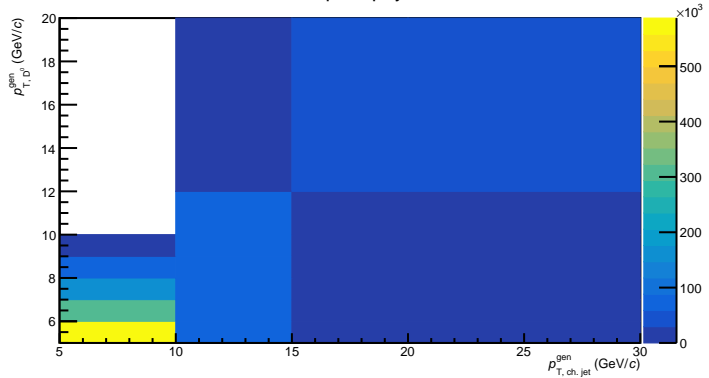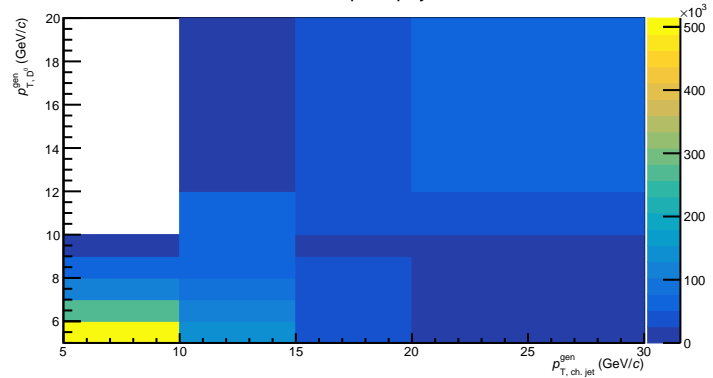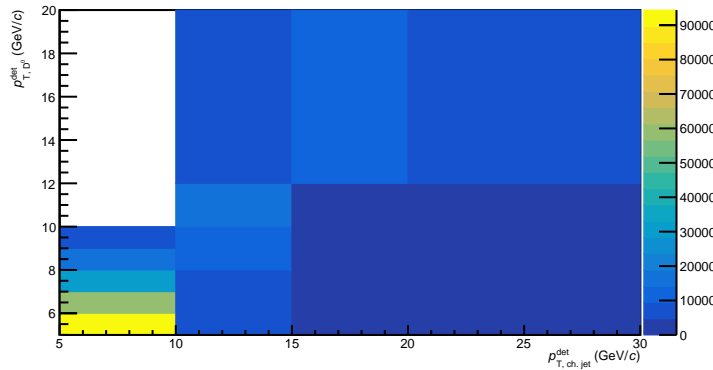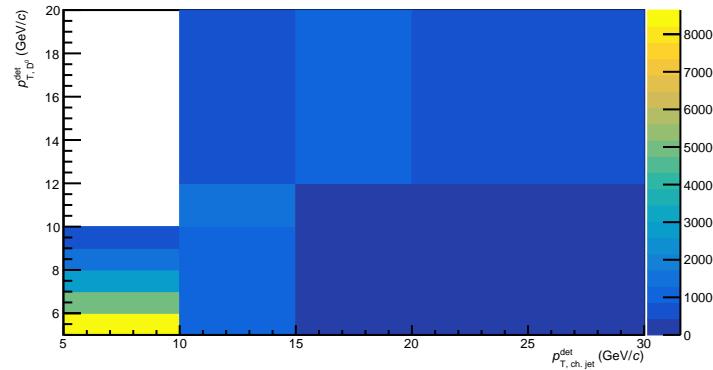Particle level data prompt yield distribution

Particle level data non-prompt yield distribution
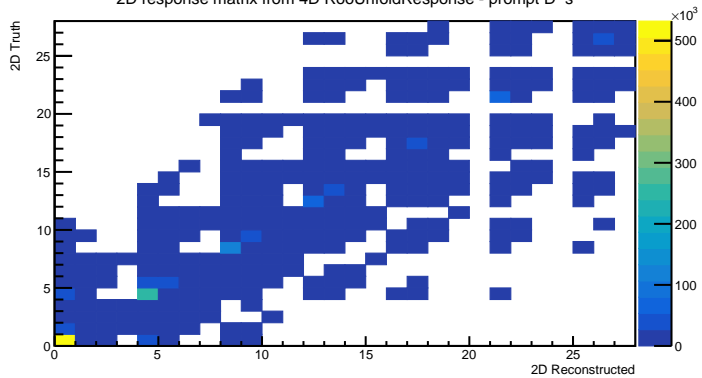
Detector level data prompt yield distribution

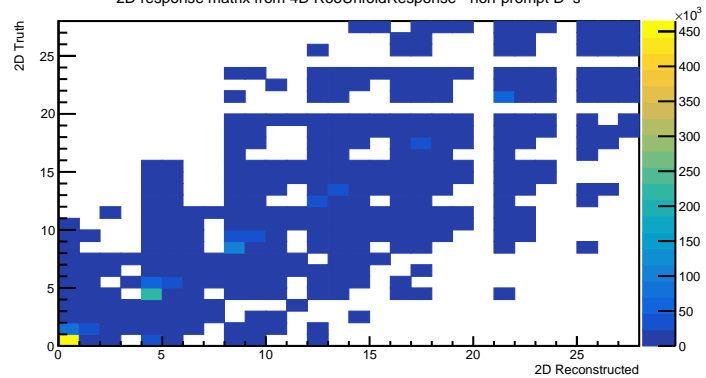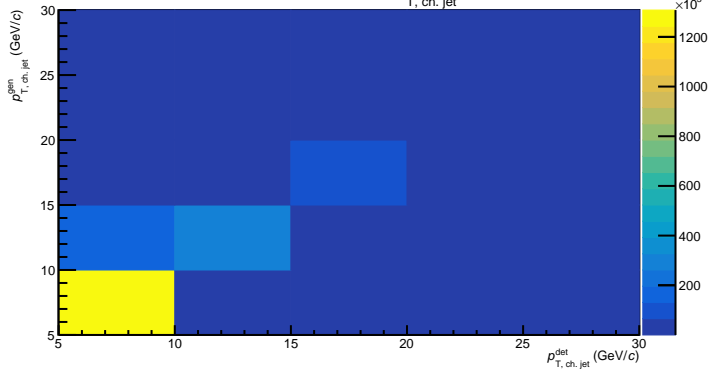Detector level data non-prompt yield distribution

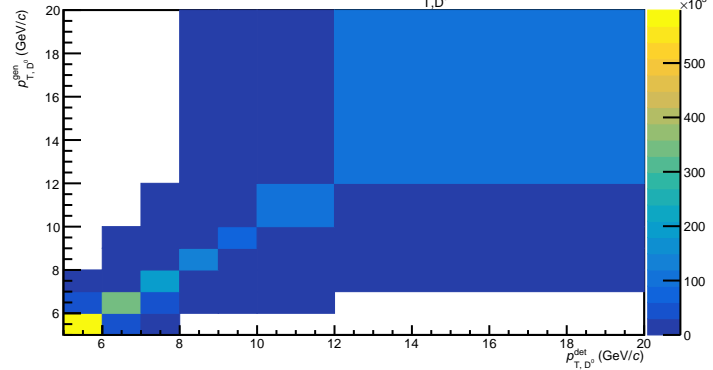**2D response matrix from 4D RooUnfoldResponse - prompt D^0's**

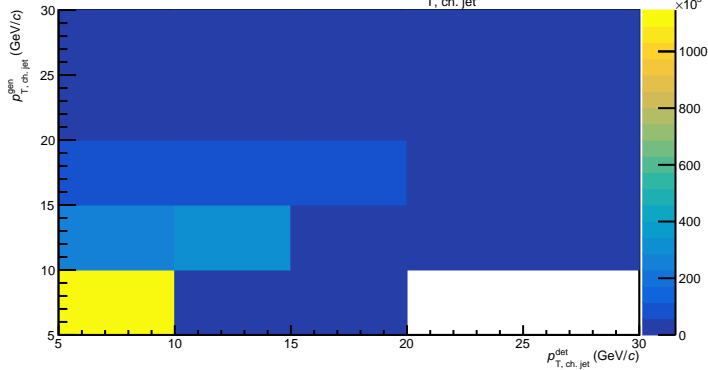**2D response matrix from 4D RooUnfoldResponse - non-prompt D^0's**
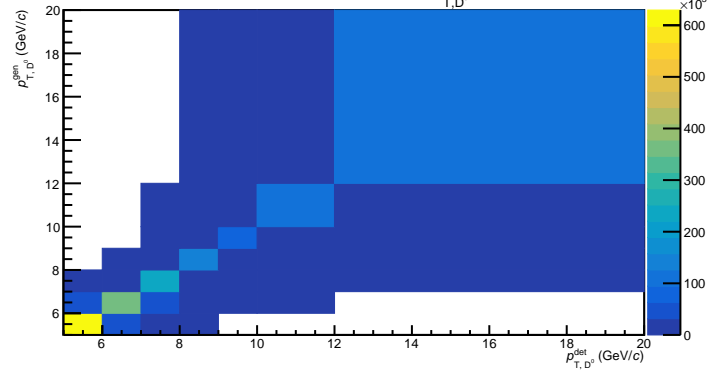
Prompt D^0's reponse matrix $p_{T, \text{ch. jet}}$ projection

Prompt D^0's reponse matrix p_{T, D^0} projection

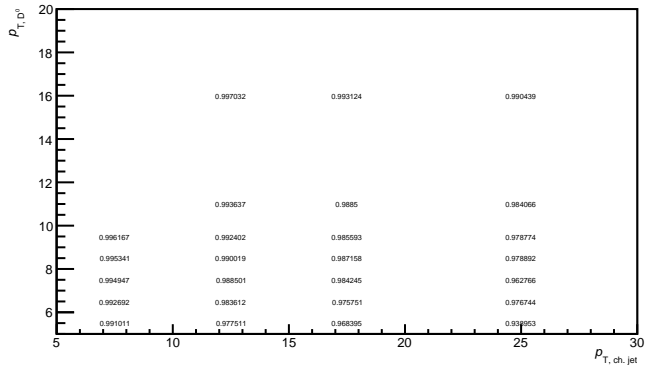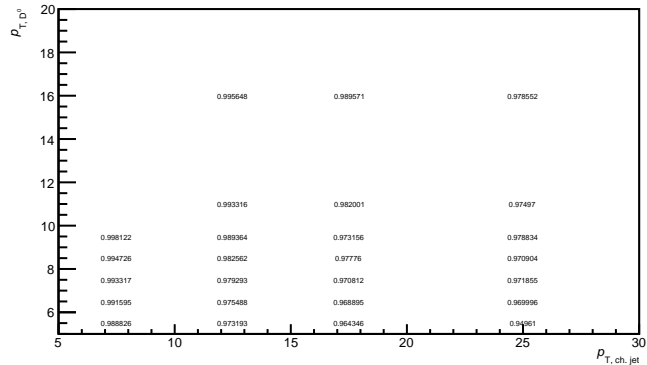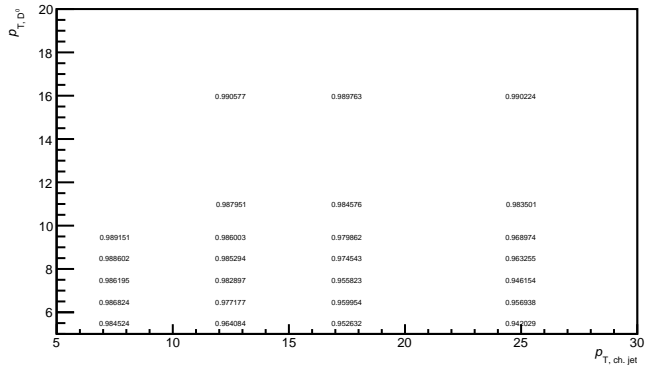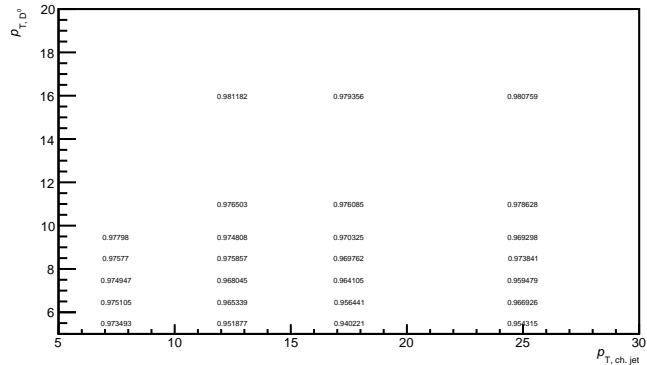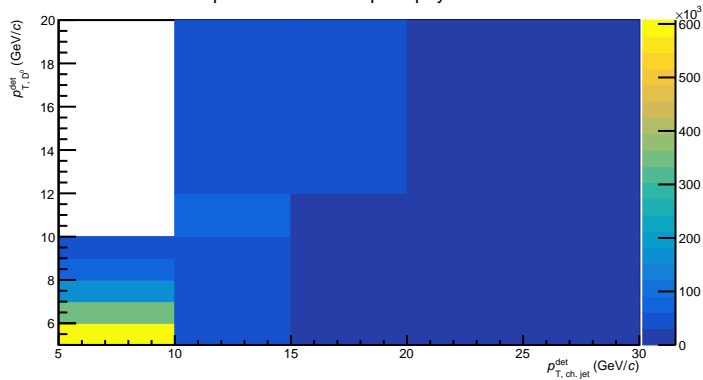Non-prompt D^0's reponse matrix $p_{T, \text{ch. jet}}$ projection
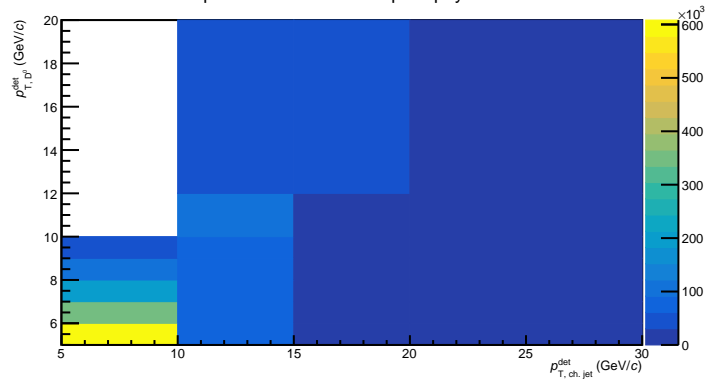
Non-prompt D^0's reponse matrix p_{T, D^0} projection

$\varepsilon_{kinematic}$ of particle level prompt D0s

$\varepsilon_{kinematic}$ of particle level non-prompt D0s

$\varepsilon_{kinematic}$ of detector level prompt D0s

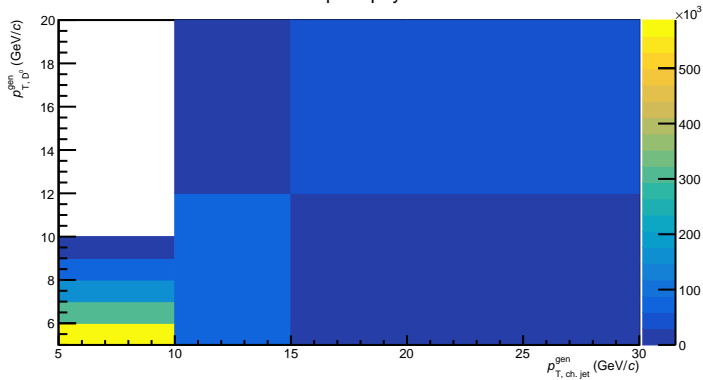$\varepsilon_{kinematic}$ of detector level non-prompt D0s

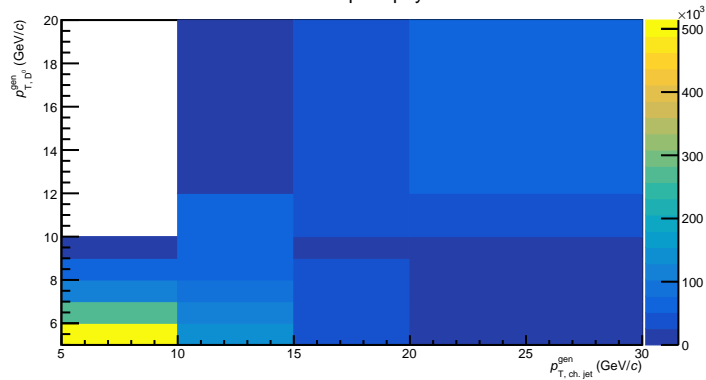Corrected particle level data prompt yield distribution

Corrected particle level data non-prompt yield distribution
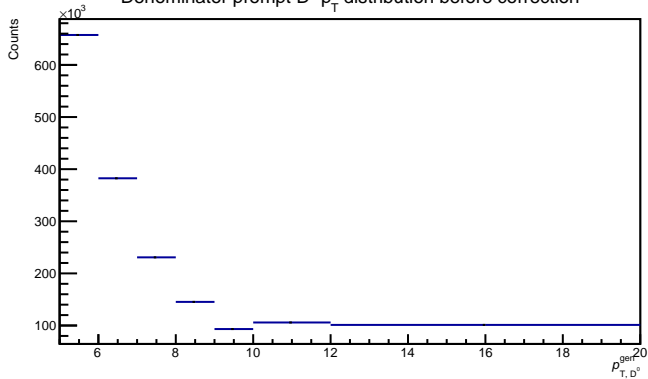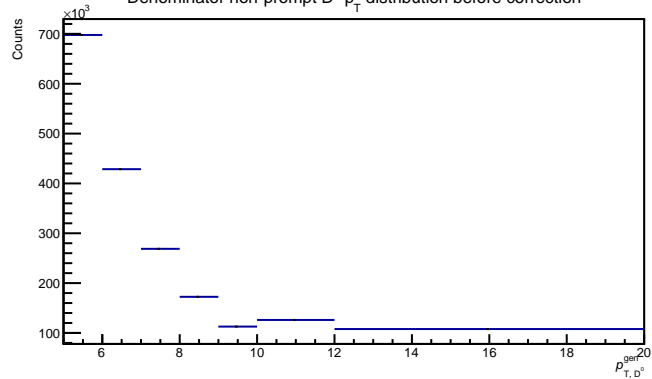
Particle level data prompt yield distribution

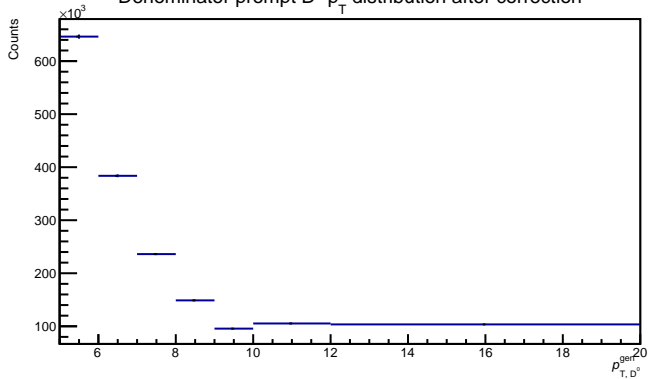Particle level data non-prompt yield distribution

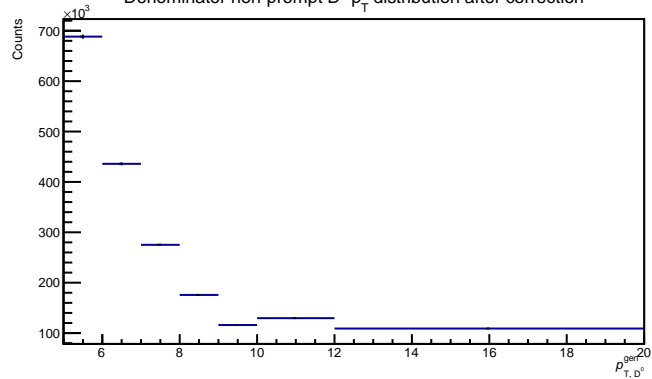Denominator prompt D^0 p_T distribution before correction

Denominator non-prompt D^0 p_T distribution before correction
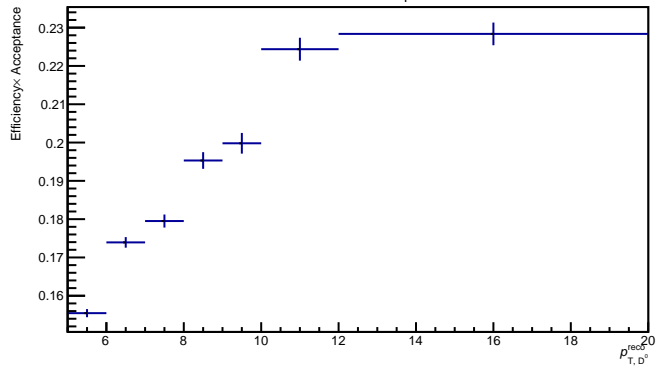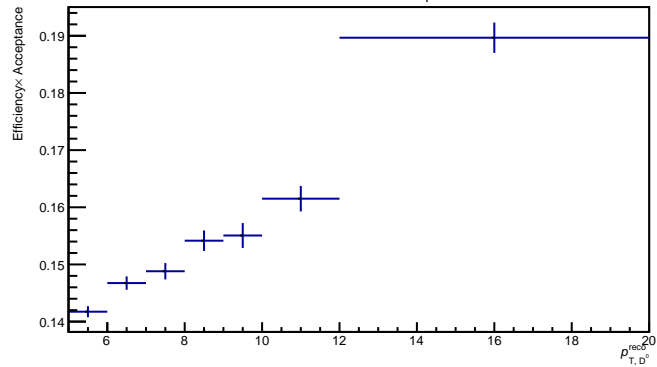
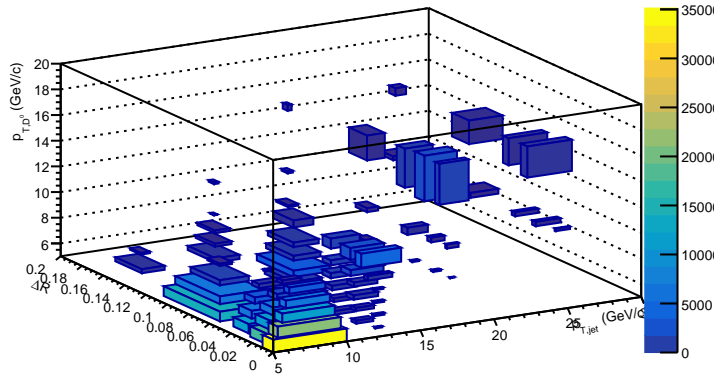Denominator prompt D^0 p_T distribution after correction

Denominator non-prompt D^0 p_T distribution after correction

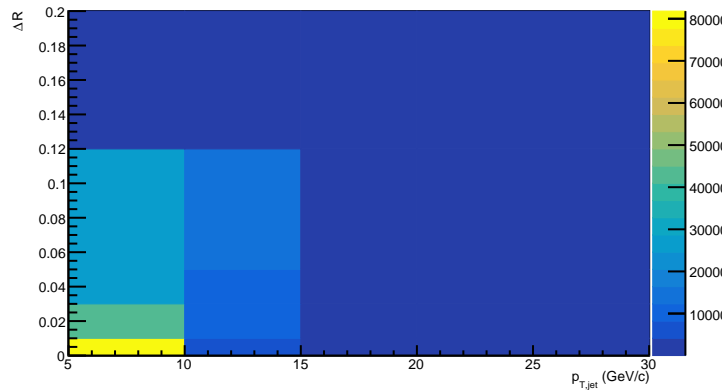**Efficiency prompt D⁰ pₜ distribution** (left) — $\text{Efficiency} \times \text{Acceptance}$ vs p_{T, D^0}^{reco}

Efficiency non-prompt D⁰ pₜ distribution (right) — $\text{Efficiency} \times \text{Acceptance}$ vs p_{T, D^0}^{reco}

Background subtracted, efficiency corrected

Background subtracted, efficiency corrected

Background subtracted, efficiency corrected