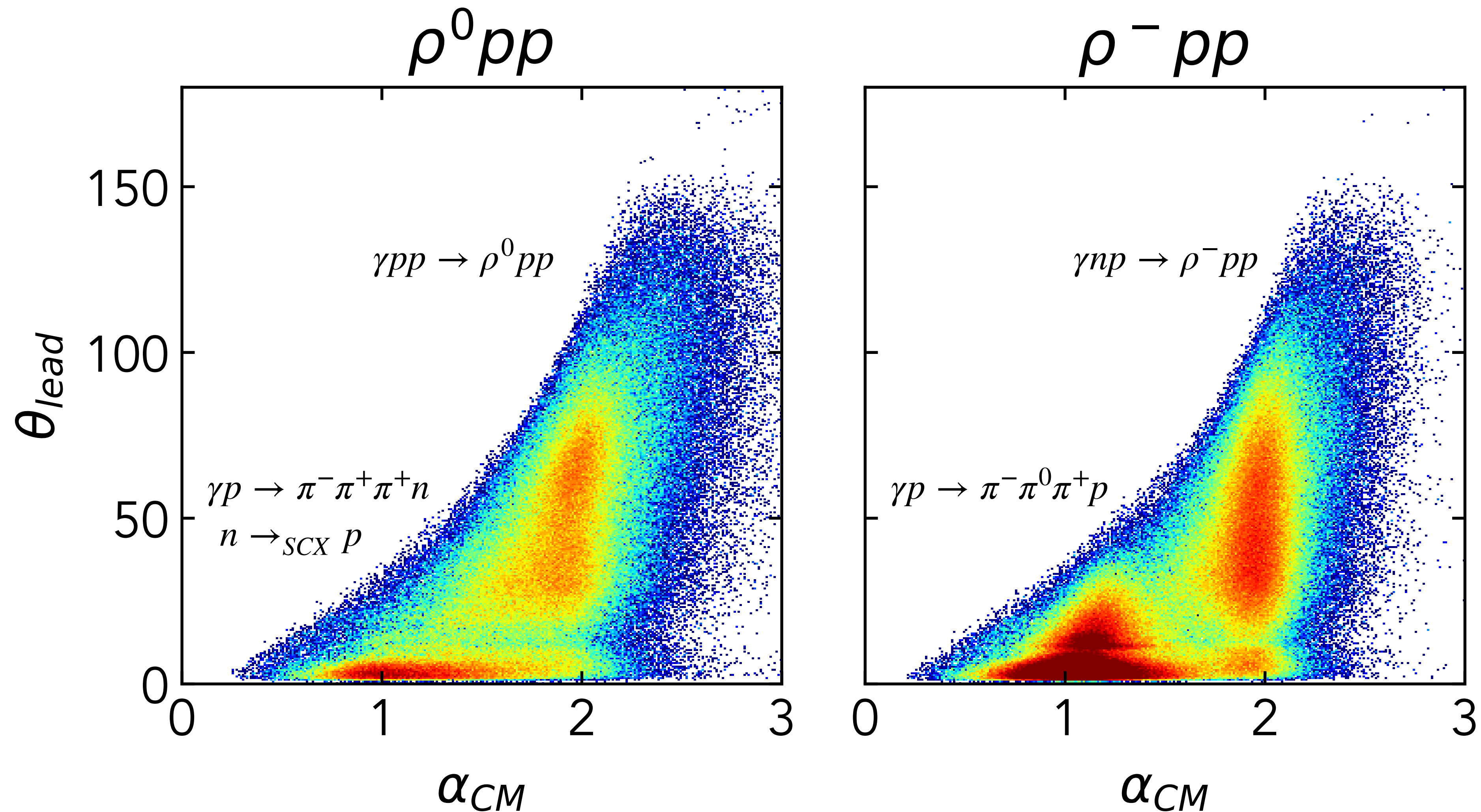


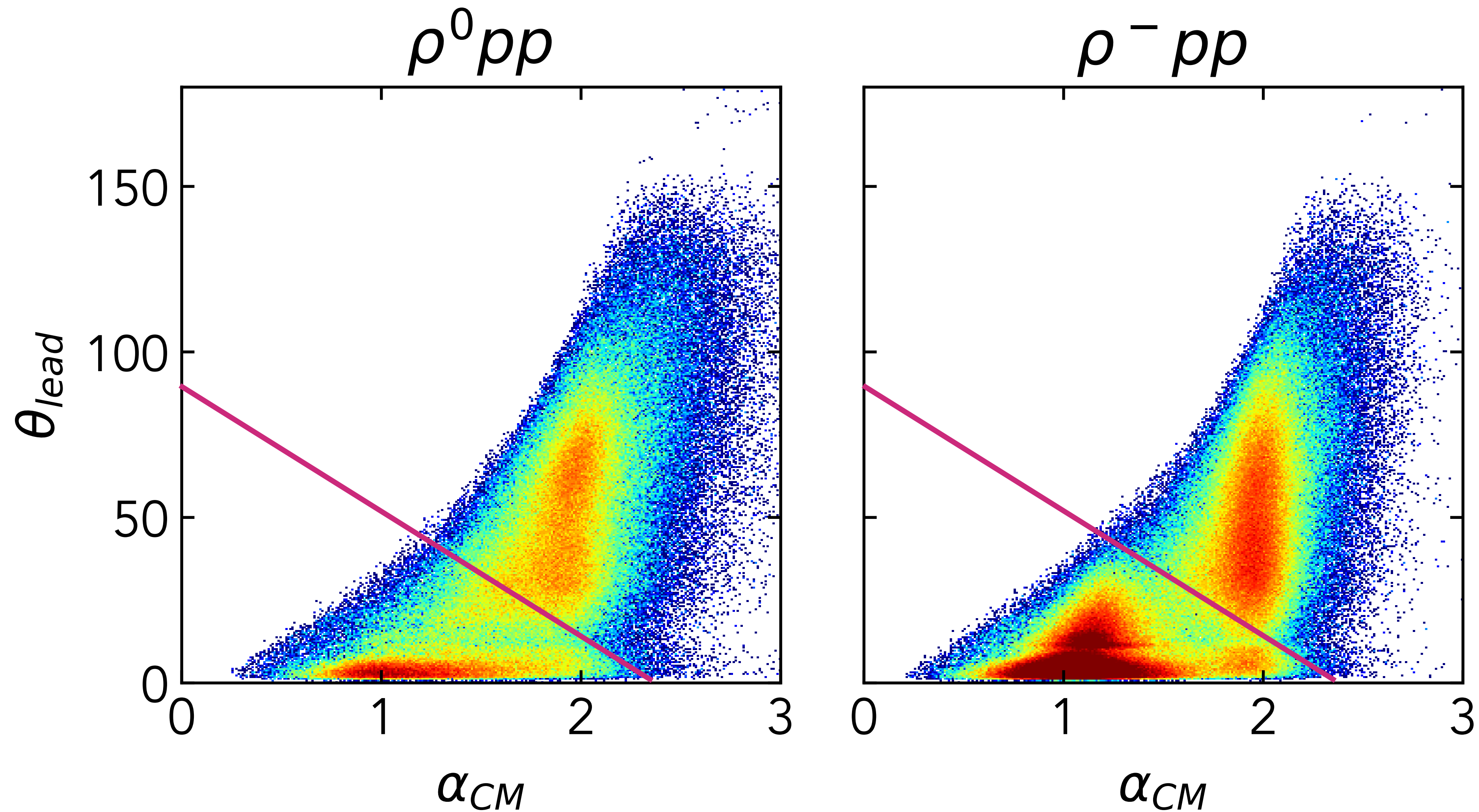
ρ^- and ρ^0 Event Selection

- **Selecting $\pi^- \pi^0 p p$ and $\pi^- \pi^+ p p$ final-states**
- KinFit CL < 0.0001
- PID FOM < 0.1
- No Unused tracks / Showers
- Vertex Cuts
- $E_\rho + E_{lead} > 7$ GeV
- $|E_\gamma + 2m_N - E_\rho - E_{lead} - E_{rec}| < 1$ GeV
- ω cuts (for ρ^- channel)
- $\frac{\alpha_{CM}}{2.4} + \frac{\theta_P}{90^\circ} > 1$
- $0.4 < k_{miss} < 1.2$ GeV
- $0.3 < p_{rec} < 1.0$ GeV

Similar diffractive background for both channels



Similar diffractive background for both channels



Opening angle similar between channels

