

Benchmark channels

All neutrals

$$\bar{p}p \rightarrow \pi^0 \pi^0 \eta \rightarrow 6\gamma \quad \text{EMC}$$

Φ dominated charmonium decay

$$\bar{p}p \rightarrow \eta_c \rightarrow \phi \phi \rightarrow 4K \quad \text{PID}$$

EM charmonium decay

$$\bar{p}p \rightarrow \eta_c \rightarrow \gamma \gamma \quad \text{EMC}$$

Hadronic charmonium decays

$$\bar{p}p \rightarrow \eta_c \rightarrow K_S^0 K^\pm \pi^\mp \quad \text{PID/ tracking}$$

Crossed-channel Compton scattering

$$\bar{p}p \rightarrow \gamma \gamma \quad \text{EMC}$$

Open charm production

$$\bar{p}p \rightarrow \psi(3770) \rightarrow D \bar{D} \quad \text{PID/ tracking}$$

$$\bar{p}p \rightarrow \psi(4040) \rightarrow D^* \bar{D}^*$$

Strange baryon production

$$\bar{p}p \rightarrow \Lambda \bar{\Lambda} \rightarrow p \pi^- \bar{p} \pi^+ \quad \text{PID/Tracking}$$

Exotic charmed Hybrid

$$\bar{p}p \rightarrow \psi_g \eta \rightarrow \chi_c \pi^0 \pi^0 \eta \quad \text{EMC}$$

Charmonium absorption in nuclei

$$\bar{p}A \rightarrow J/\psi X \rightarrow \mu^+ \mu^- \quad \text{Muon}$$