Main FOCUS Upgrades

- Si Planes Inside Segmented Target
- Fast Hadron Calorimeter
- Lead-glass Inner EM Calorimeter
- Improved and Expanded Muon Detection
- Improved Cerenkov Identification

A LARGE VARIETY OF CHARM PHYSICS TOPICS

SPECTROSCOPY

LIFETIMES

DOUBLY CABBIBO SUPPRESSED DECAYS

RARE AND FORBIDDEN DECAYS

MIXING

CP VIOLATION

RESONANCE STRUCTURE (DALITZ)

SEMILEPTONIC DECAYS

PRODUCTION DYNAMICS

OUTLINE

- **SPECTROSCOPY**
  - **MESONS**
    - **D^{*0} - D^0 MASS DIFFERENCE**
    - **D** SIGNALS**
  - **BARYONS**
    - **• $_C^0$, • $_C^{++}$, • $_C^+$ MASS DIFFERENCES**
    - **• $_C$, • $_C$* SPECTROSCOPY**
    - **• $_C^+$ DECAYS**
- **D_S^+ and • $_C^+$ LIFETIMES**
- **DOUBLY CABBIBO SUPRESSED DECAYS**
- **CP VIOLATION**
- **D^0 , D^{0BAR} MIXING**
- **RARE AND FORBIDDEN DECAYS**