

## Partial Wave Analysis

Acceptance — Uniform and well understood.  
 Hermiticity — Full event reconstruction  
 Resolution — Good reconstruction  
 Identification — Good particle Identification  
 Fully reconstructed exclusive final states

Hybrids are expected to have complicated decays

Relative rates let us access underlying wave functions

DECAY MODES:  $X^0 \rightarrow b_1 \pi^0$  ,  $f_1 \pi^0$  ,  $a_2 \pi^0$  ....  
 $\omega \pi^0 \pi^0$   $K^+ K^- \pi^0 \pi^0$   $\eta \pi^0 \pi^0$   
 $\pi^+ \pi^- \pi^0 \pi^0 \pi^0$   $K^+ K^- \gamma \gamma \gamma$   $\gamma \gamma \gamma \gamma$   
 $\pi^+ \pi^- \gamma \gamma \gamma \gamma$