

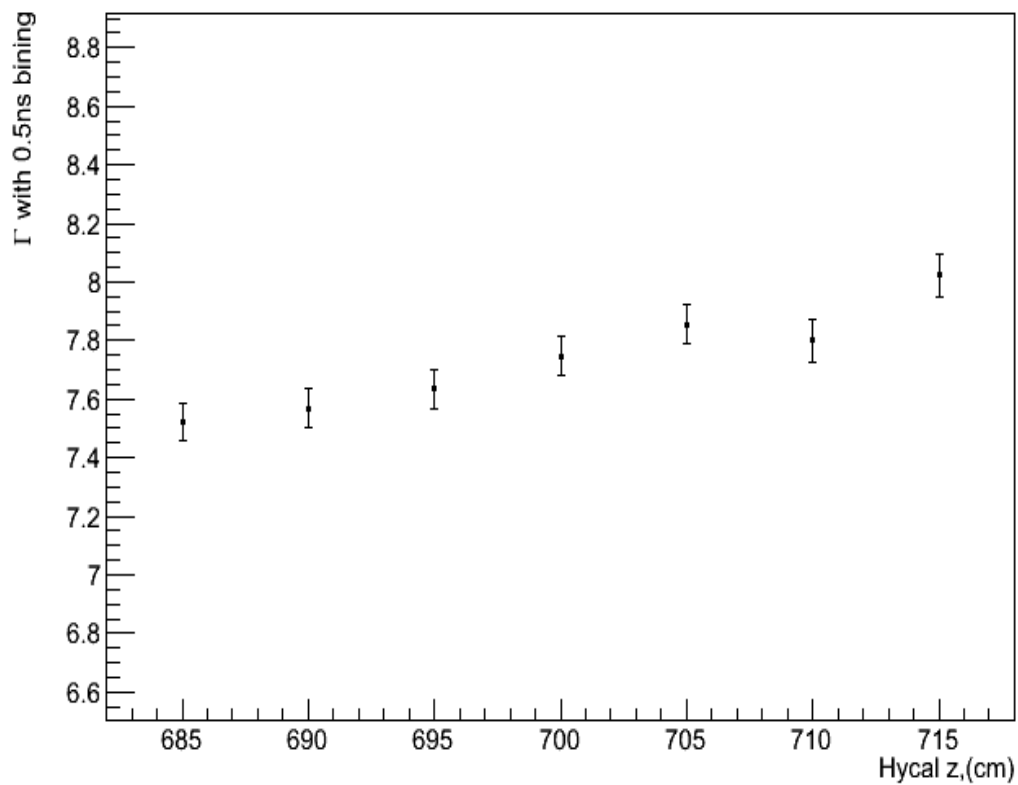
# Systematic Error Study for Primex-II

Lingling Ma

- Outline:

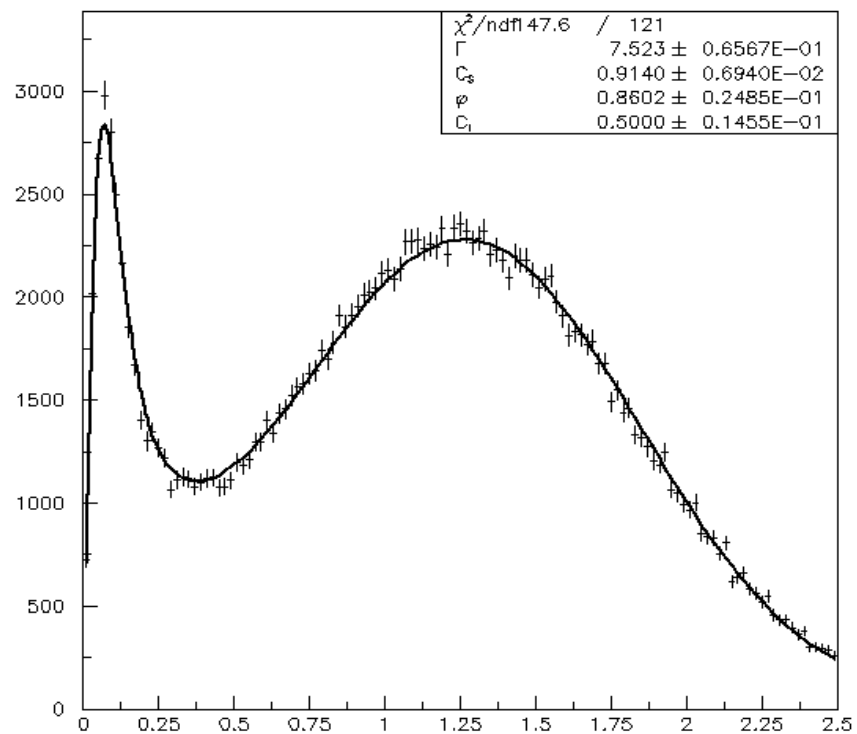
- Hycal z uncertainty

# Pi0 decay width vs. Hycal z

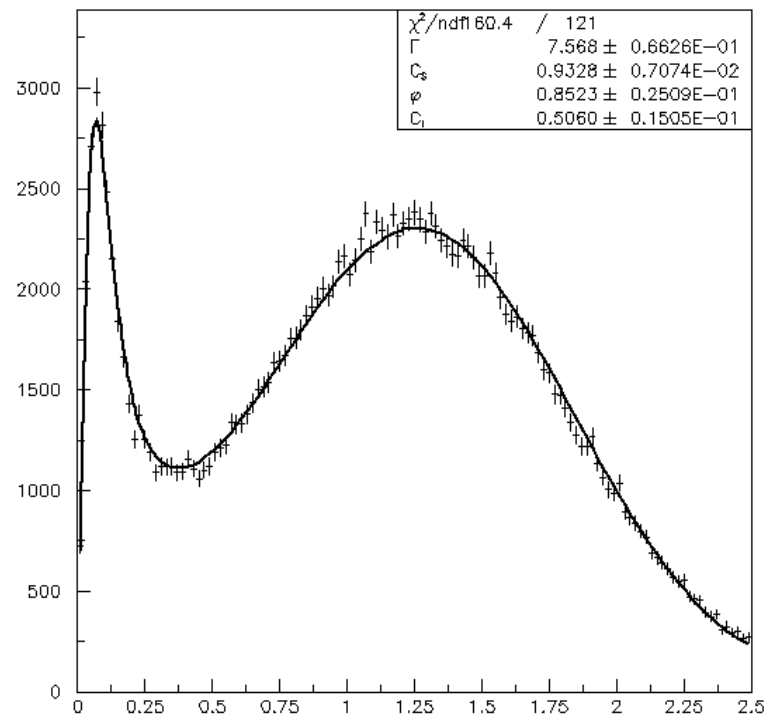


| <b>Hycal z(cm)</b> | <b><math>\Gamma</math>(eV)</b> | <b>stat. error</b> | <b><math>\chi^2/ \text{ndof}</math></b> |
|--------------------|--------------------------------|--------------------|---|
| 685                | 7.523                          | 0.066              | 1.2                                     |
| 690.               | 7.568                          | 0.066              | 1.3                                     |
| 695.               | 7.634                          | 0.067              | 1.6                                     |
| 700.               | 7.747                          | 0.068              | 1.9                                     |
| 705.               | 7.856                          | 0.069              | 1.7                                     |
| 710.               | 7.799                          | 0.071              | 2.5                                     |
| 715.               | 8.022                          | 0.070              | 2.8                                     |

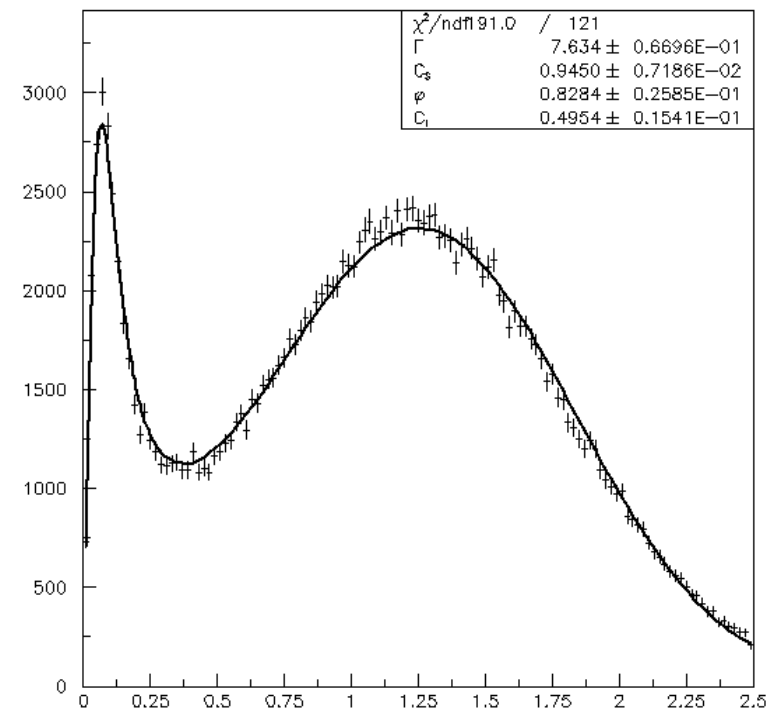
Z= 685 (cm)



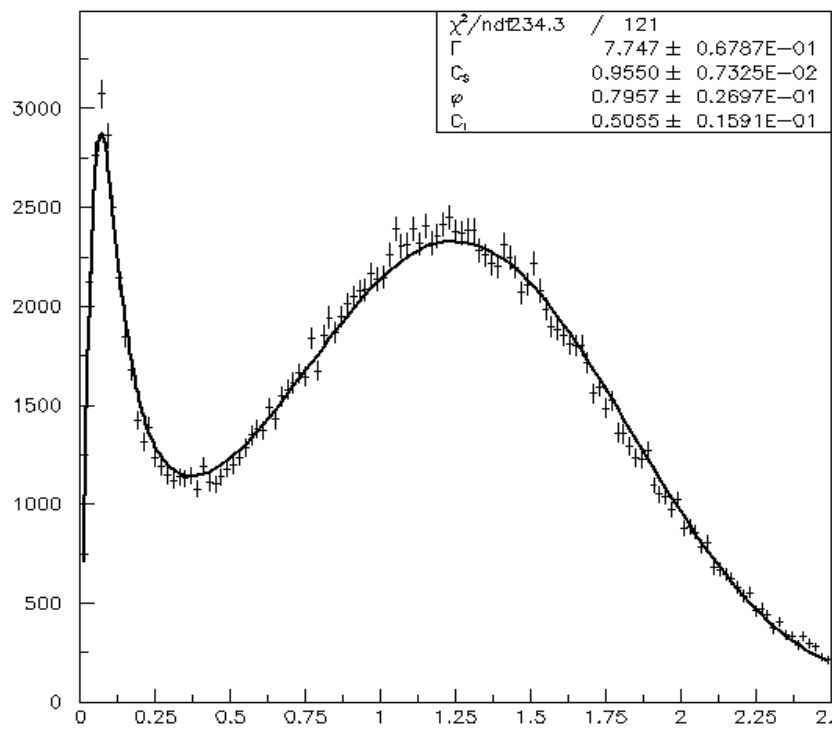
Z= 690(cm)



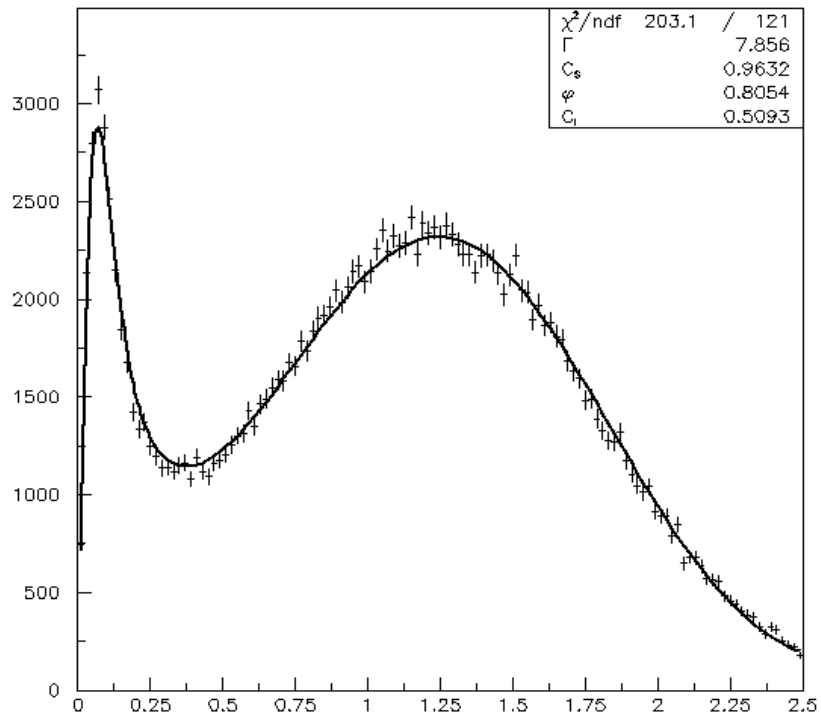
Z= 695(cm)



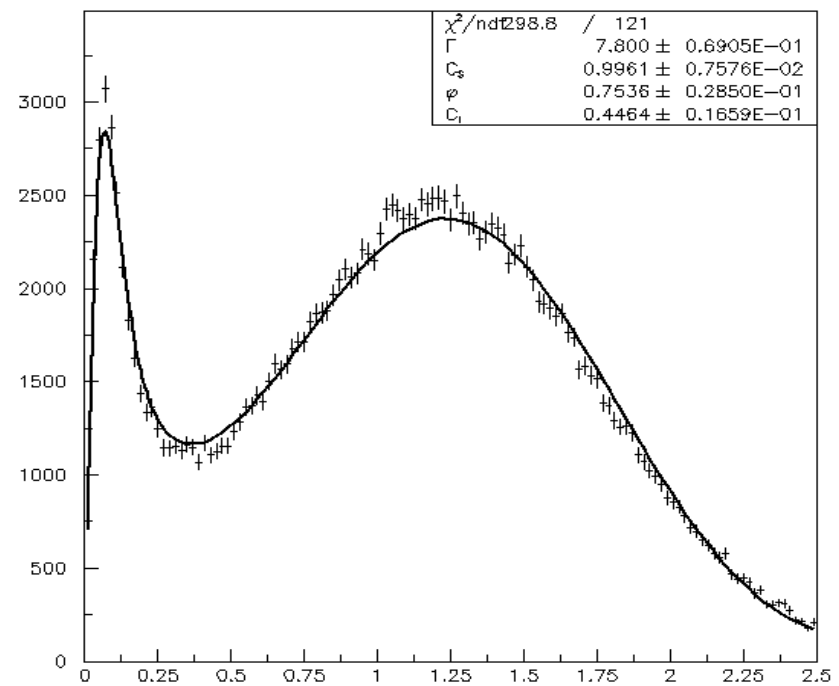
Z= 700 (cm)



Z= 705(cm)



Z= 710 (cm)



Z= 715 (cm)

