

## Experimental Results

**1979 – 1994**

### Structure of $\Lambda$ Hypernuclei

- ( $K^-, \pi^-$ ) cross sections
- $\gamma$ -ray transitions
- ( $\pi^+, K^+$ ) investigation of single-particle states for  $A \leq 90$

### Weak Decays of $\Lambda$ Hypernuclei

- Lifetimes of  ${}^4_\Lambda He$ ,  ${}^5_\Lambda He$ ,  ${}^{11}_\Lambda B$ ,  ${}^{12}_\Lambda C$
- Partial widths for mesonic and non-mesonic weak decays  $\Gamma_p$ ,  $\Gamma_n$ ,  $\Gamma_{\pi^-}$ ,  $(\Gamma_{\pi^0})$

### $\Sigma$ Hypernuclei

- Possible  $\Sigma$  bound state in  ${}^4He (K^-, \pi^-) {}^4_\Sigma He$
- High statistics study of quasi-free  $\Sigma$  production on  ${}^9Be$

### $K^+$ Total Cross Sections

- Nuclear medium effects in ration for  ${}^{12}C$  to  $D$  targets