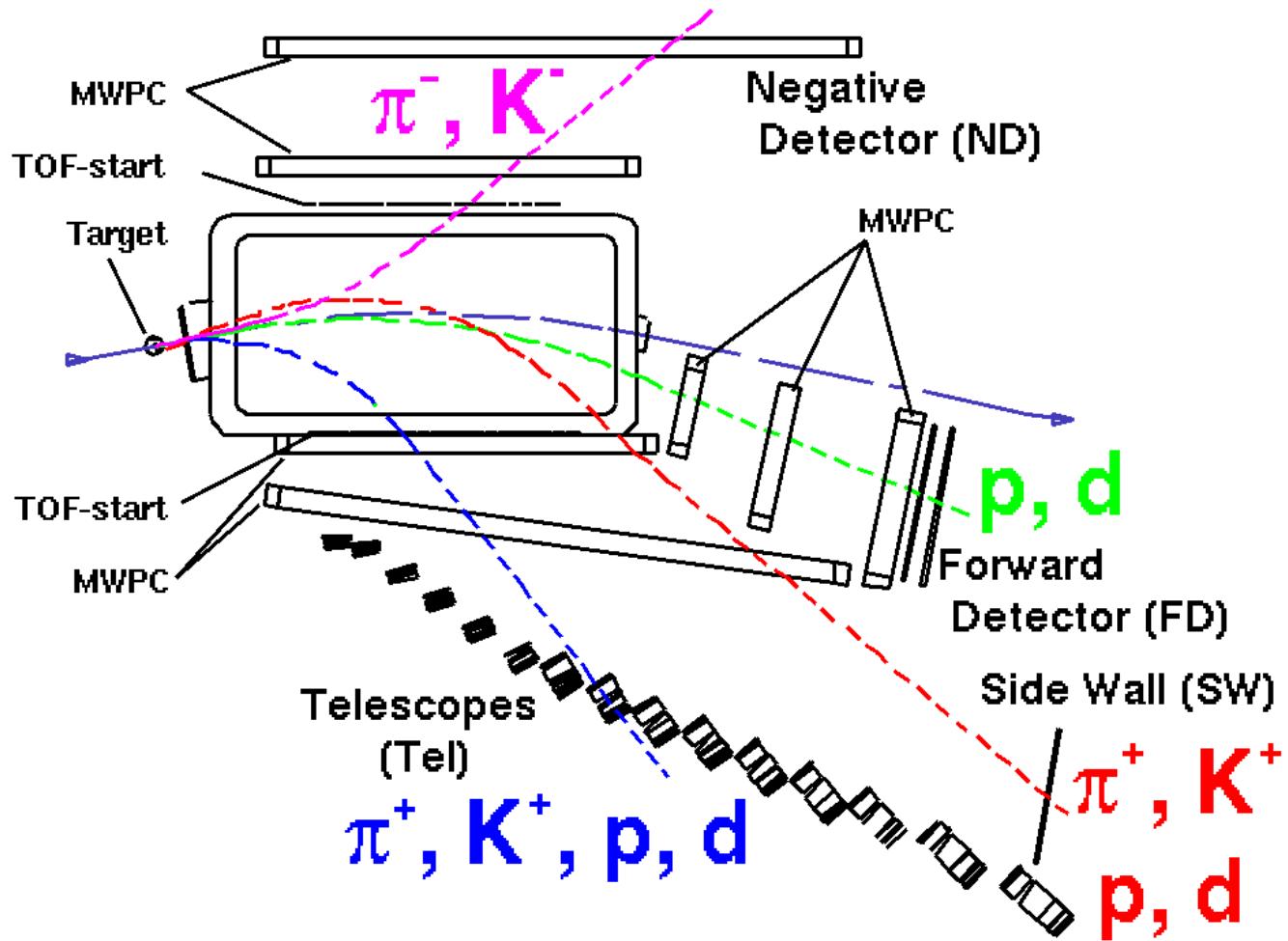
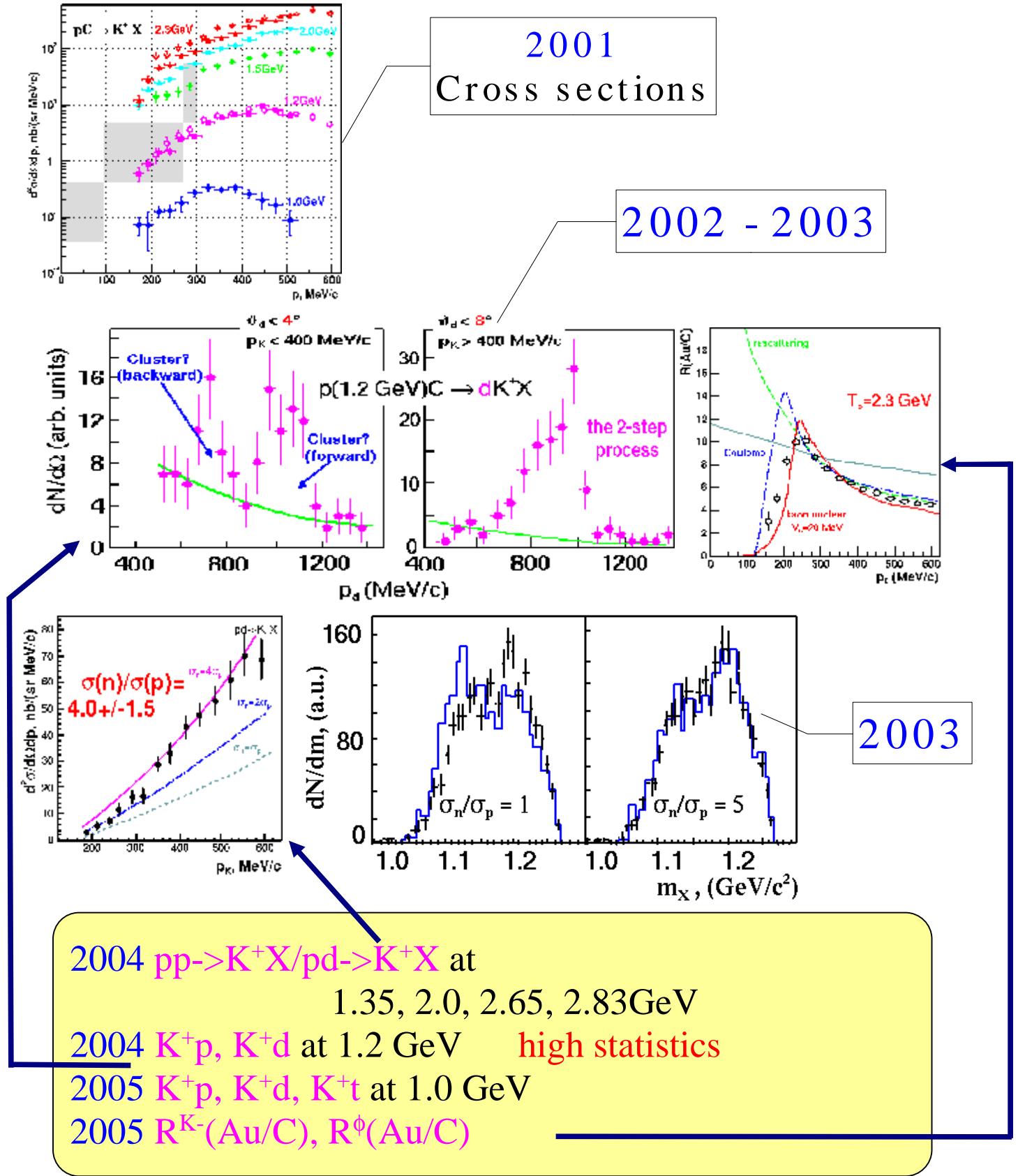


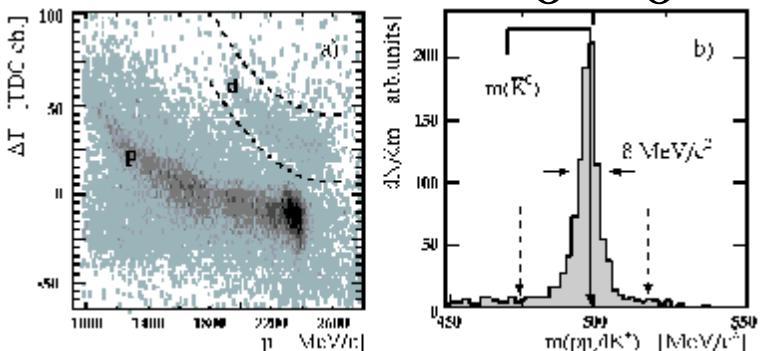
ANKE spectrometer



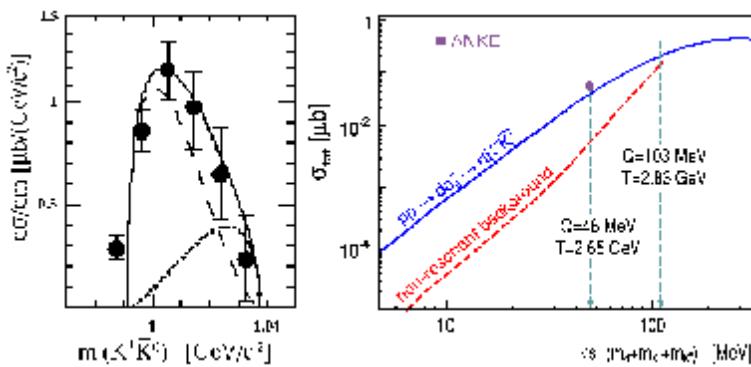
Subthreshold K^+ production



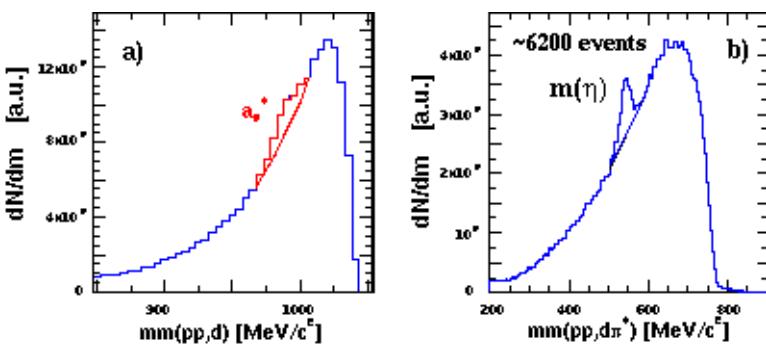
a_0/f_0 study



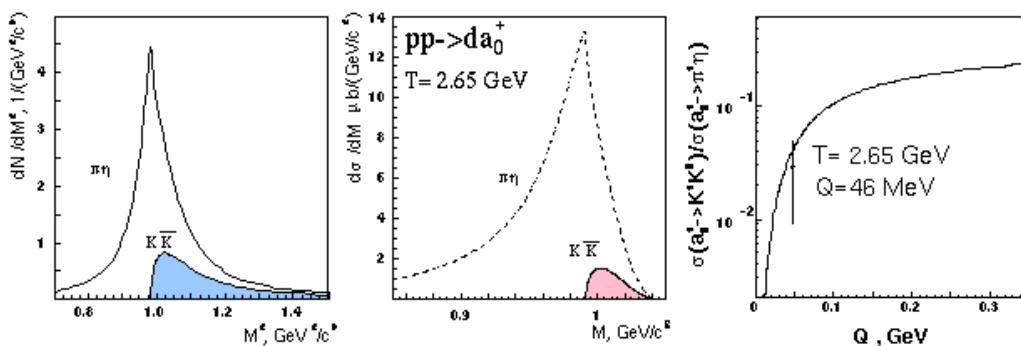
$T_p = 2.65 \text{ GeV}$ —
 $\text{pp} \rightarrow d(a_0^+ \rightarrow K^+ K^0)$
 2001 - 2002



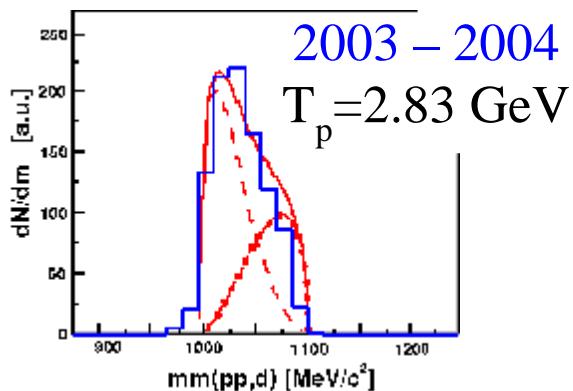
2002 – 2003
 $\sigma(a_0^+ \rightarrow K^+ K^0) =$
 $38 \pm 12 \text{ nb}$



$\text{pp} \rightarrow d(a_0^+ \rightarrow \pi^+ \eta)$
 $\sigma(a_0^+ \rightarrow \pi^+ \eta) =$
 $1.1 \pm 0.7 \mu\text{b}$



$R =$
 0.029 ± 0.020



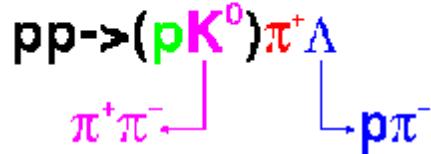
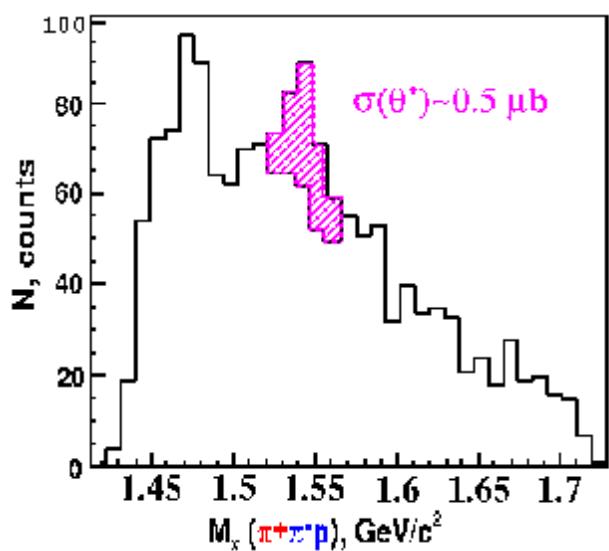
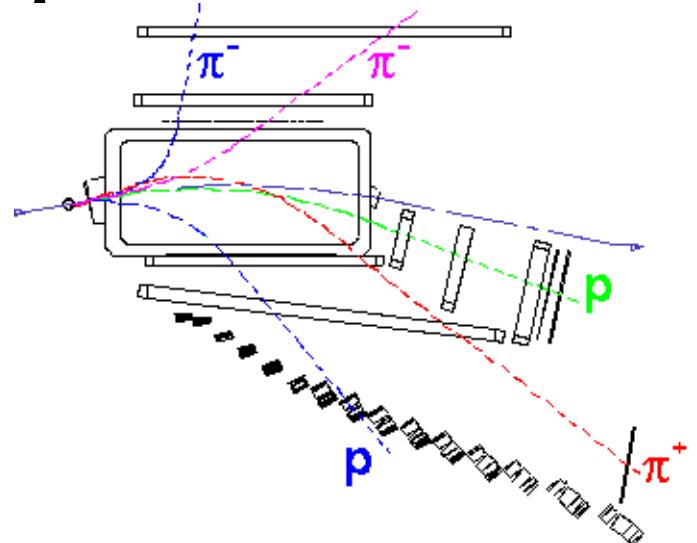
2003 – 2004
 $T_p = 2.83 \text{ GeV}$

pn → K⁺K⁻d
 pd → K⁺K⁻He³
 pd → K⁺K⁰t
 pn → K⁰pΛ
 pd → K⁺K⁻He⁴

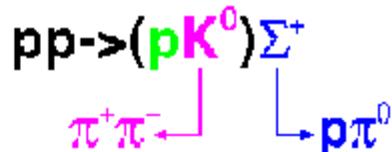
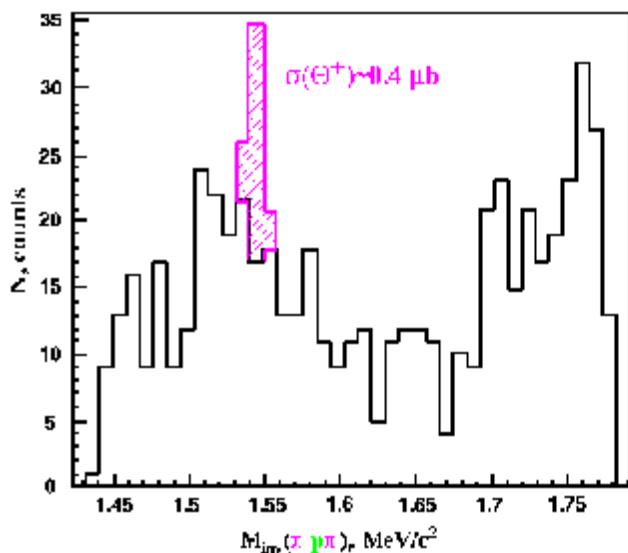
2004
 2005

Pentaquark

January-March '04



7 days

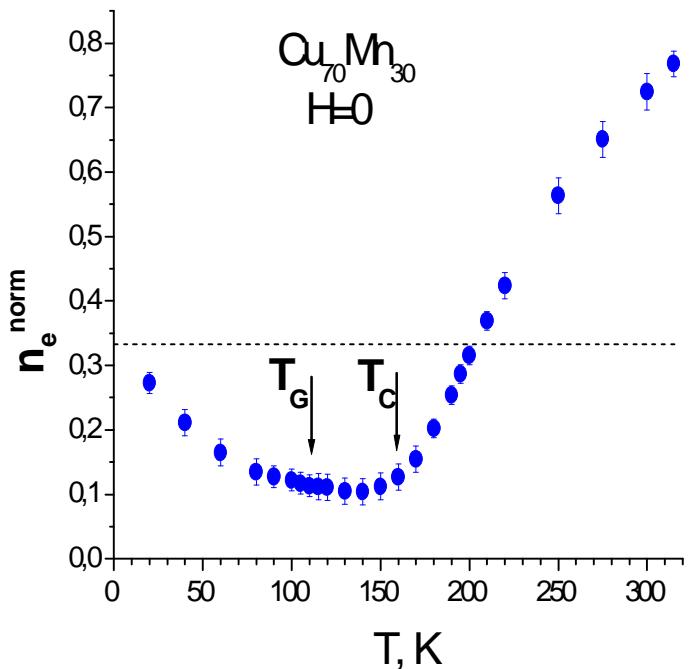
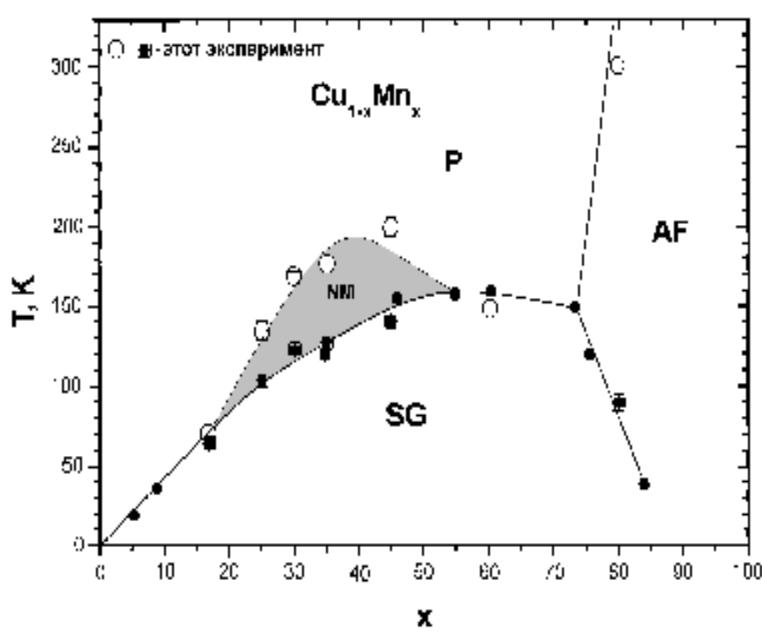


5 days

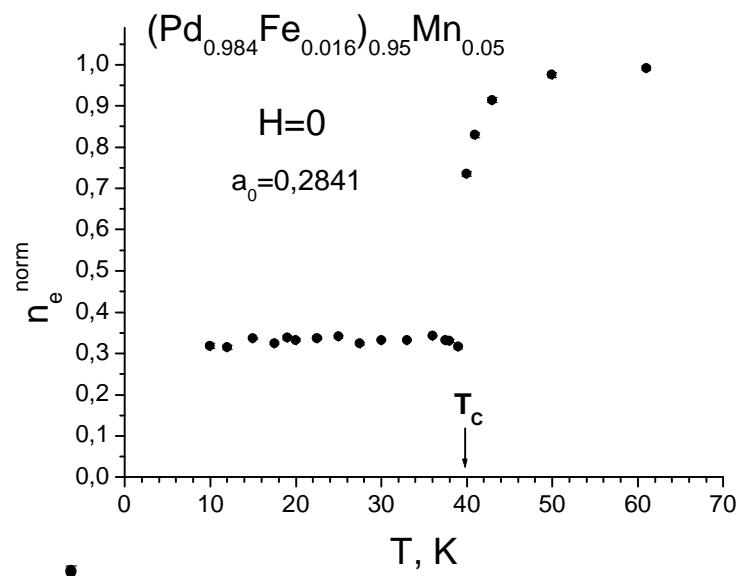
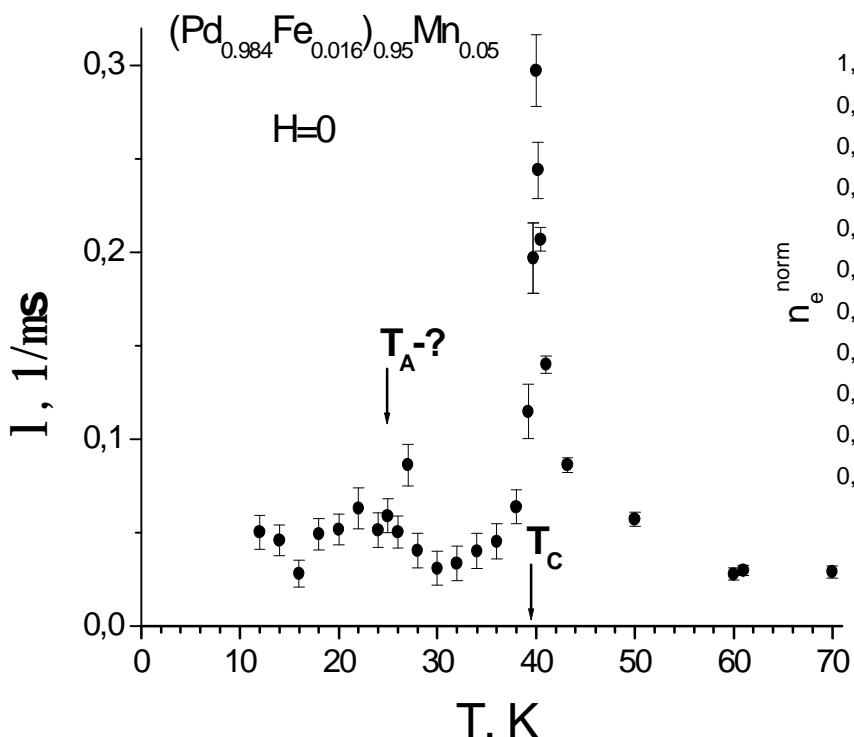
$\text{pn} \rightarrow (\text{K}^0\text{p})\Lambda$ is expected
500 ev/day with nuclear target

μSR

$\text{Cu}_{1-x}\text{Mn}_x$



PdFeMn



2004 - $\text{Cu}_{1-x}\text{Mn}_x$, $x=0.7, 0.55, 0.37$

- $(\text{Pd}_{0.984}\text{Fe}_{0.016})_{0.95}\text{Mn}_{0.05}$ magnetic field dependence