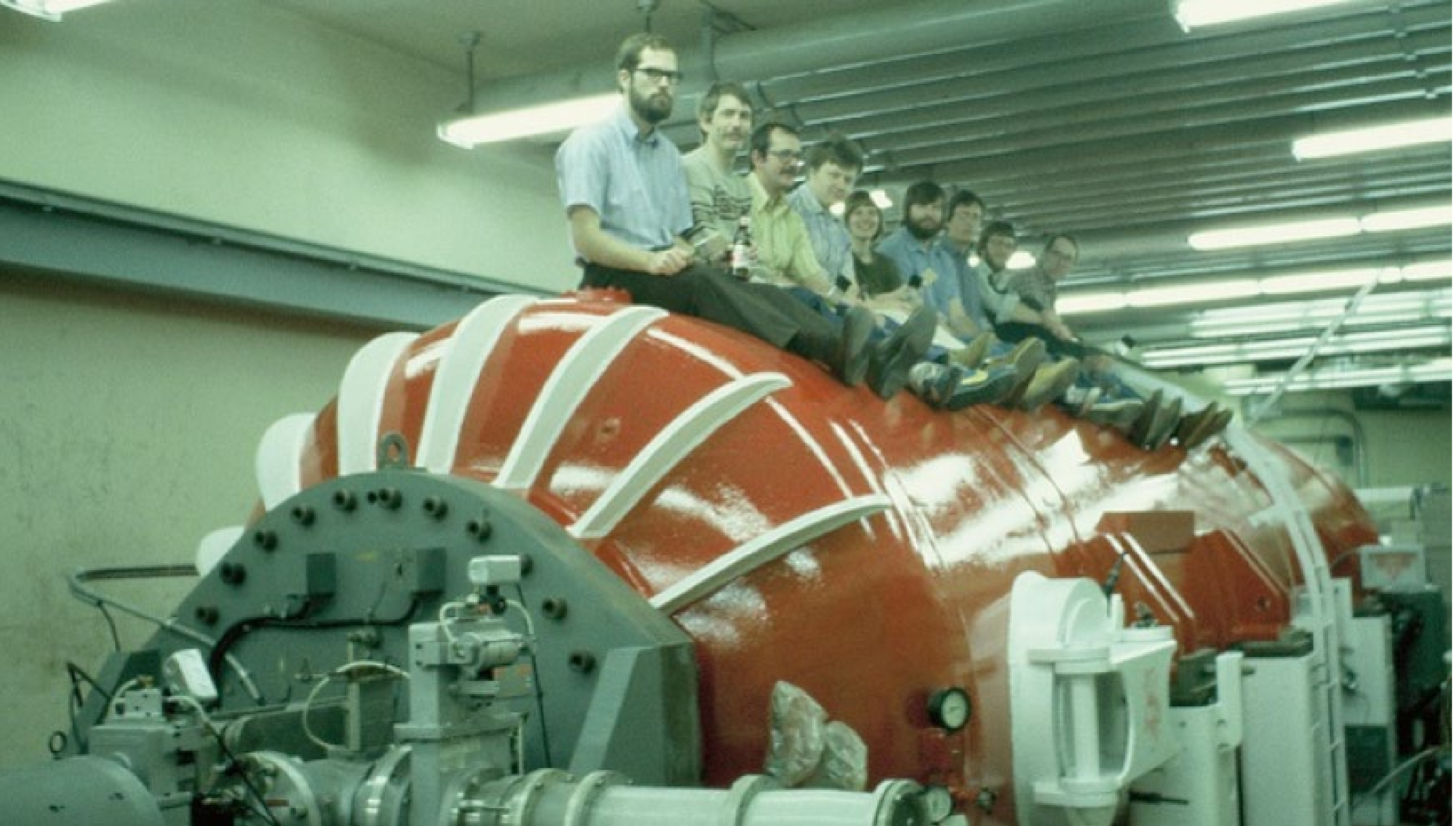
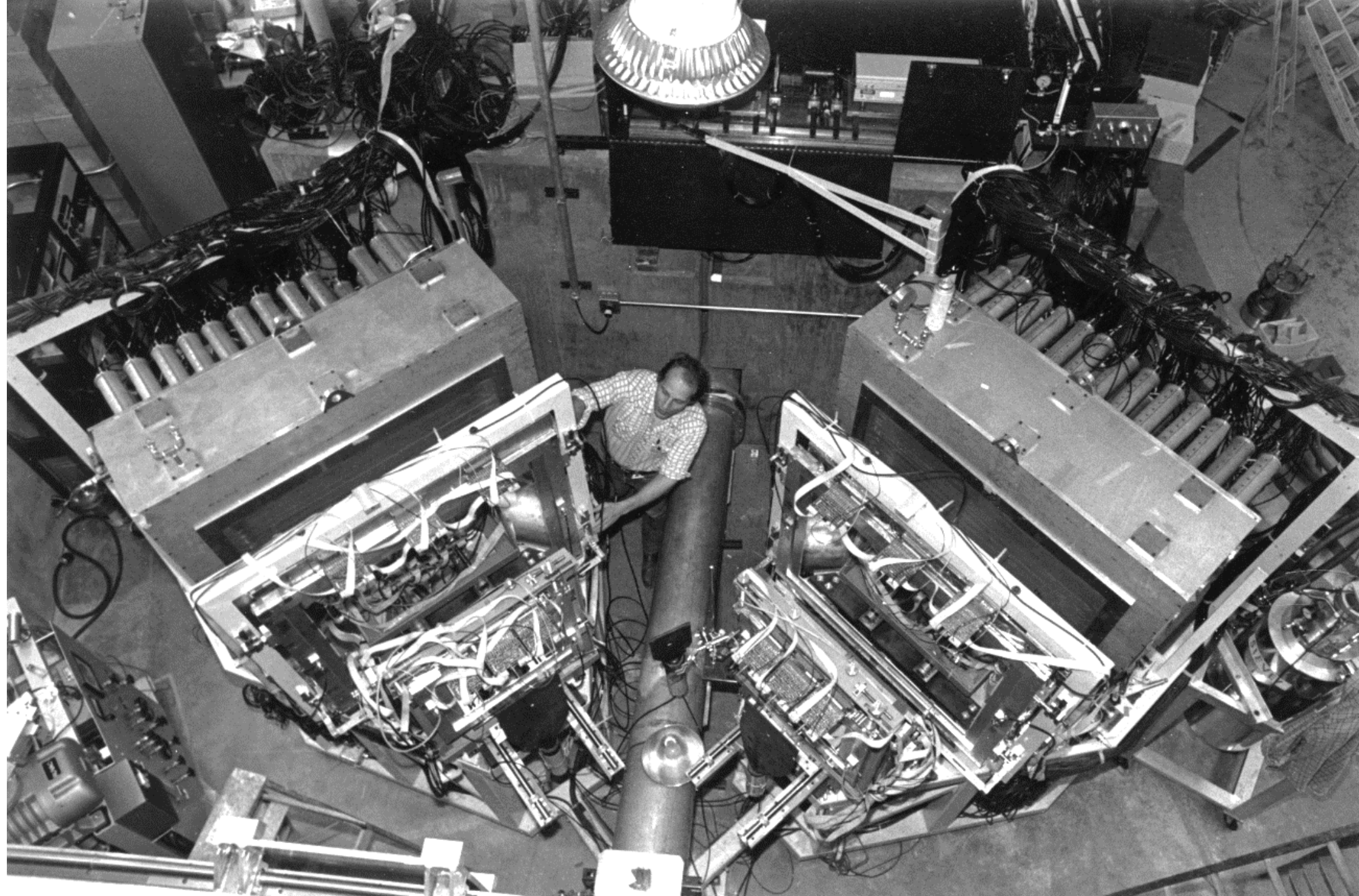




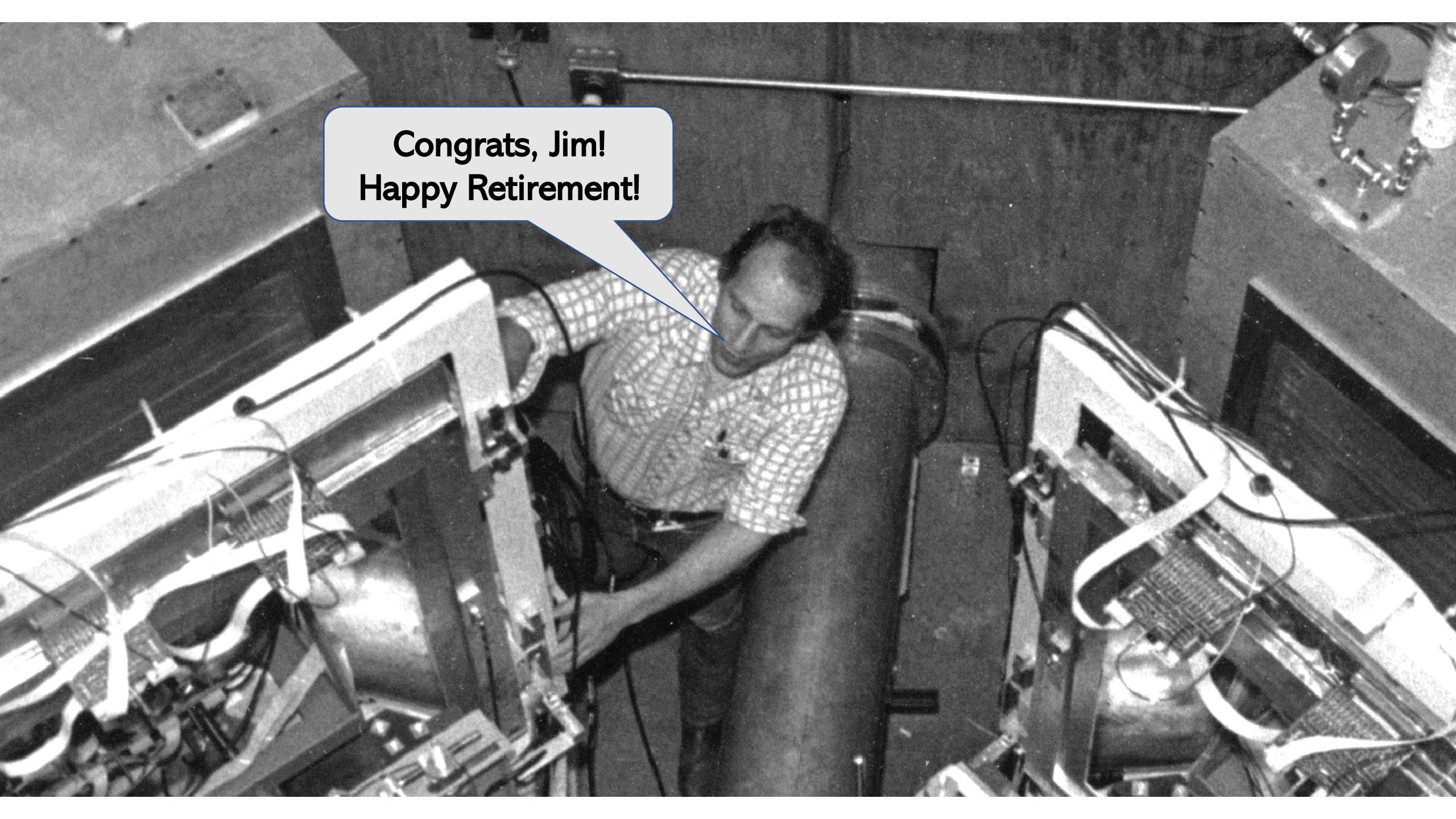
# A Tribute to Jim Sowinski

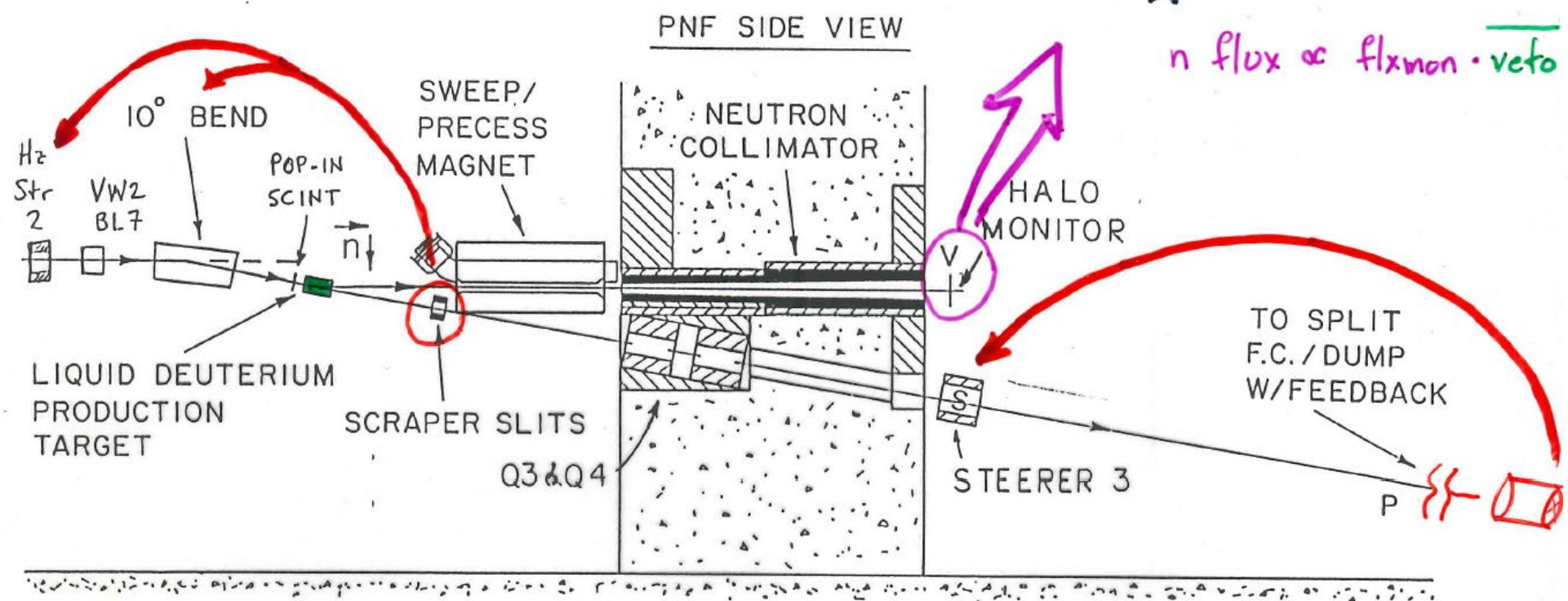
Scott Wissink  
Indiana University – CEEM





**Congrats, Jim!  
Happy Retirement!**



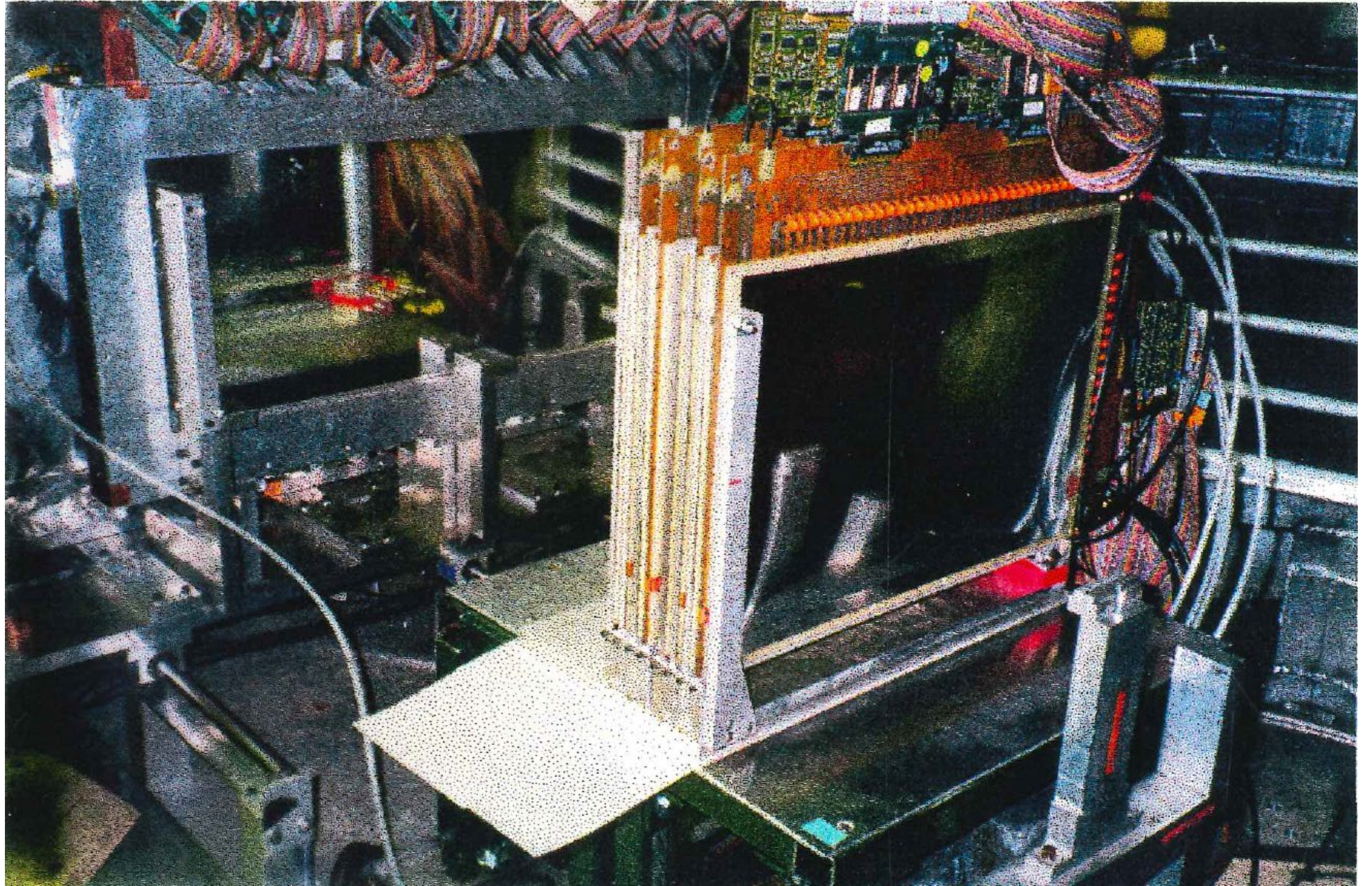


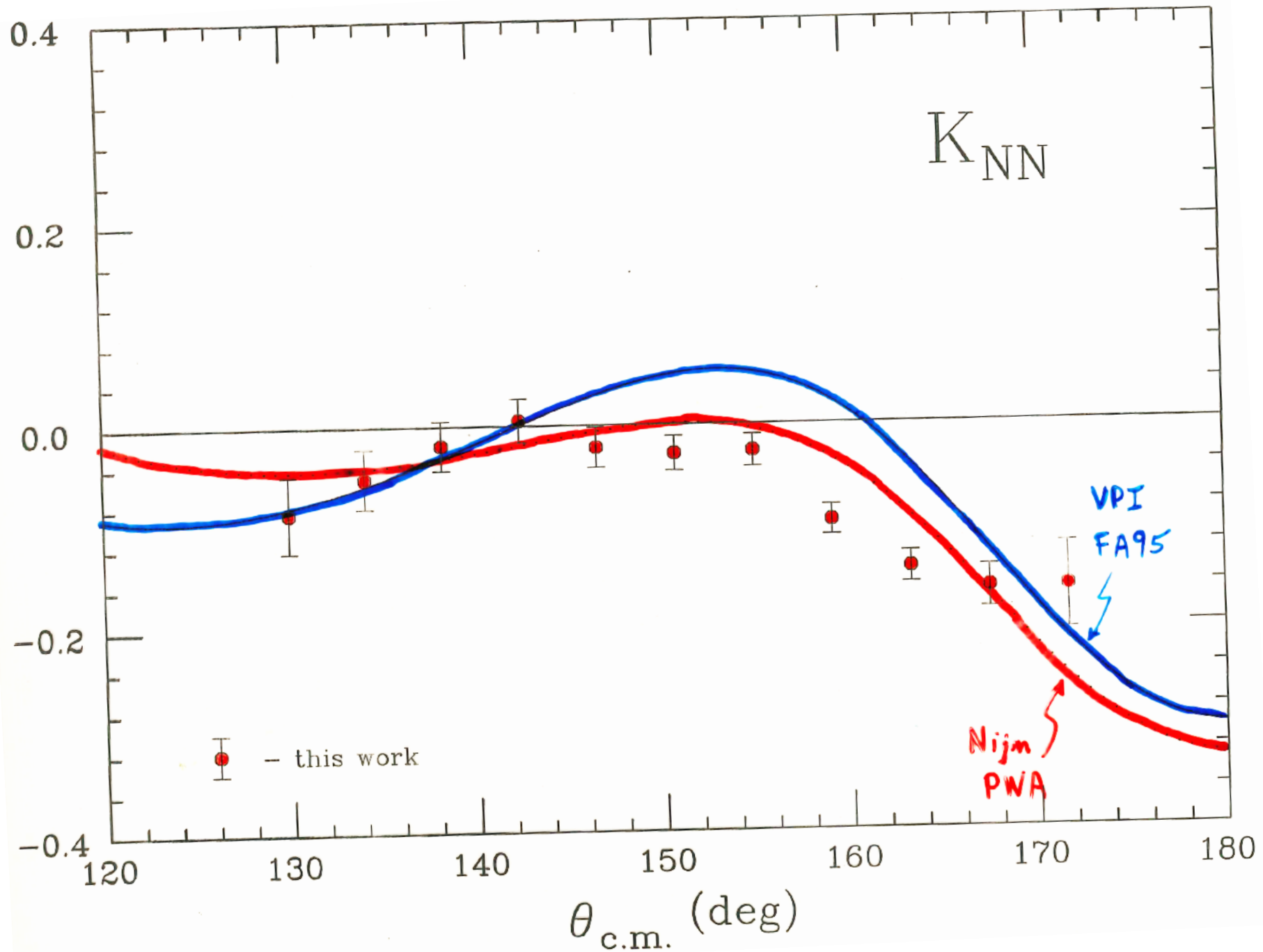
Use  $K_{SS} (\sim -0.80)$  in  ${}^2\text{H}(\vec{p}, \vec{n})pp$  to produce  $\vec{n}$  beam

For 320 nA on 10-cm  $\text{LD}_2 \rightarrow 4 \times 10^6 \vec{n}/s$ ,  $p_n \sim 55\%$

$\langle T_n \rangle \approx 186 \text{ MeV}$

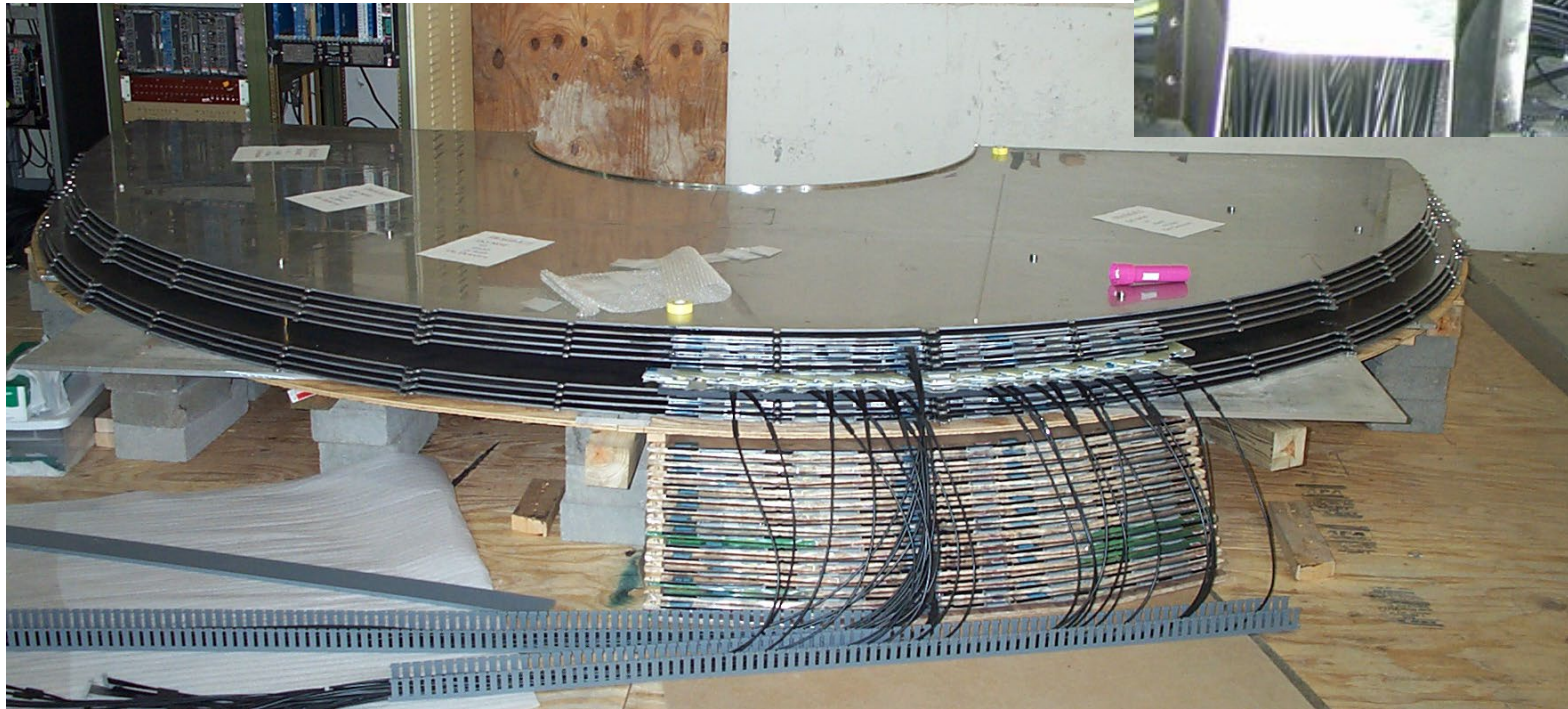
$\Delta T_n \approx 8 \text{ MeV FWHM}$

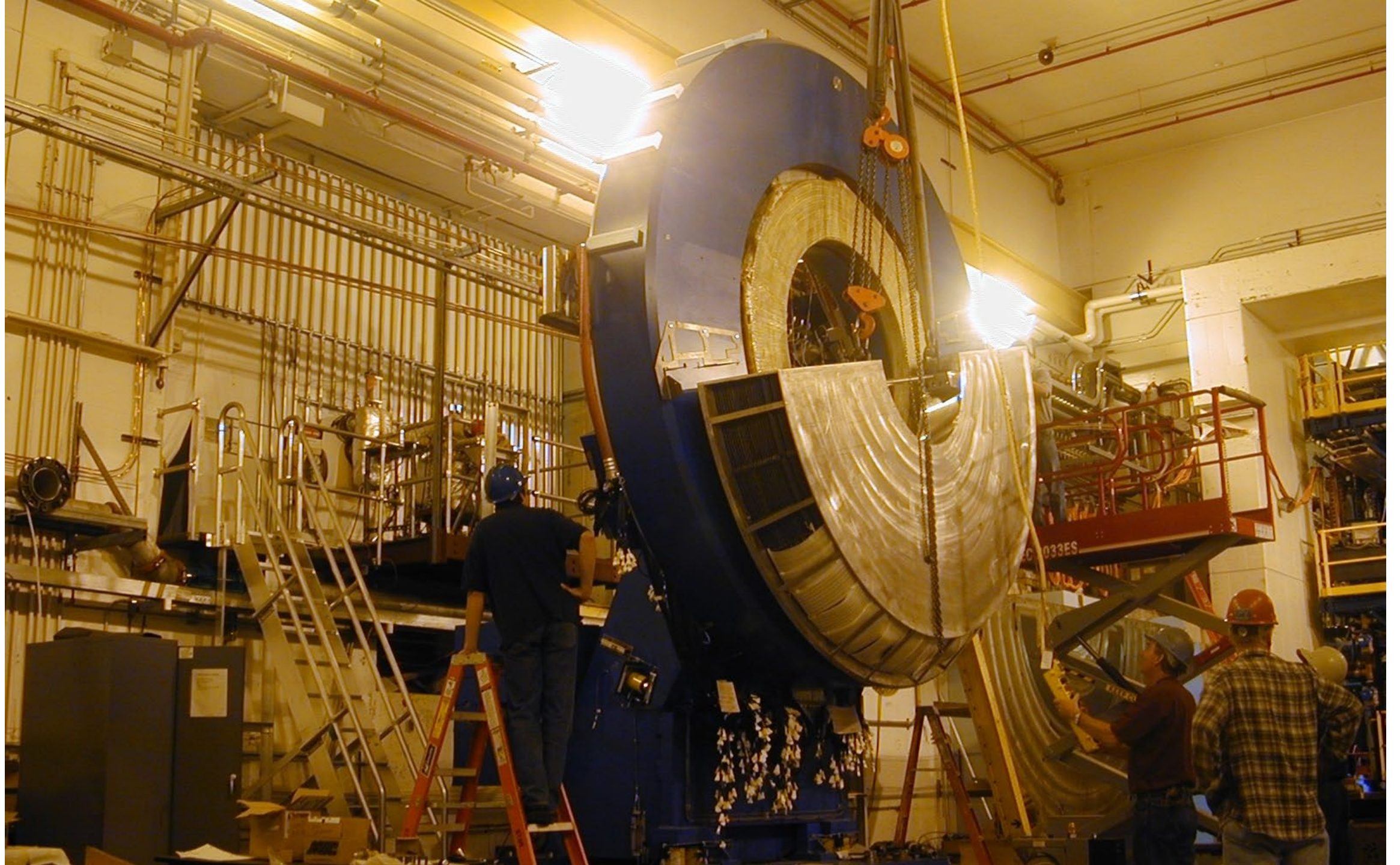






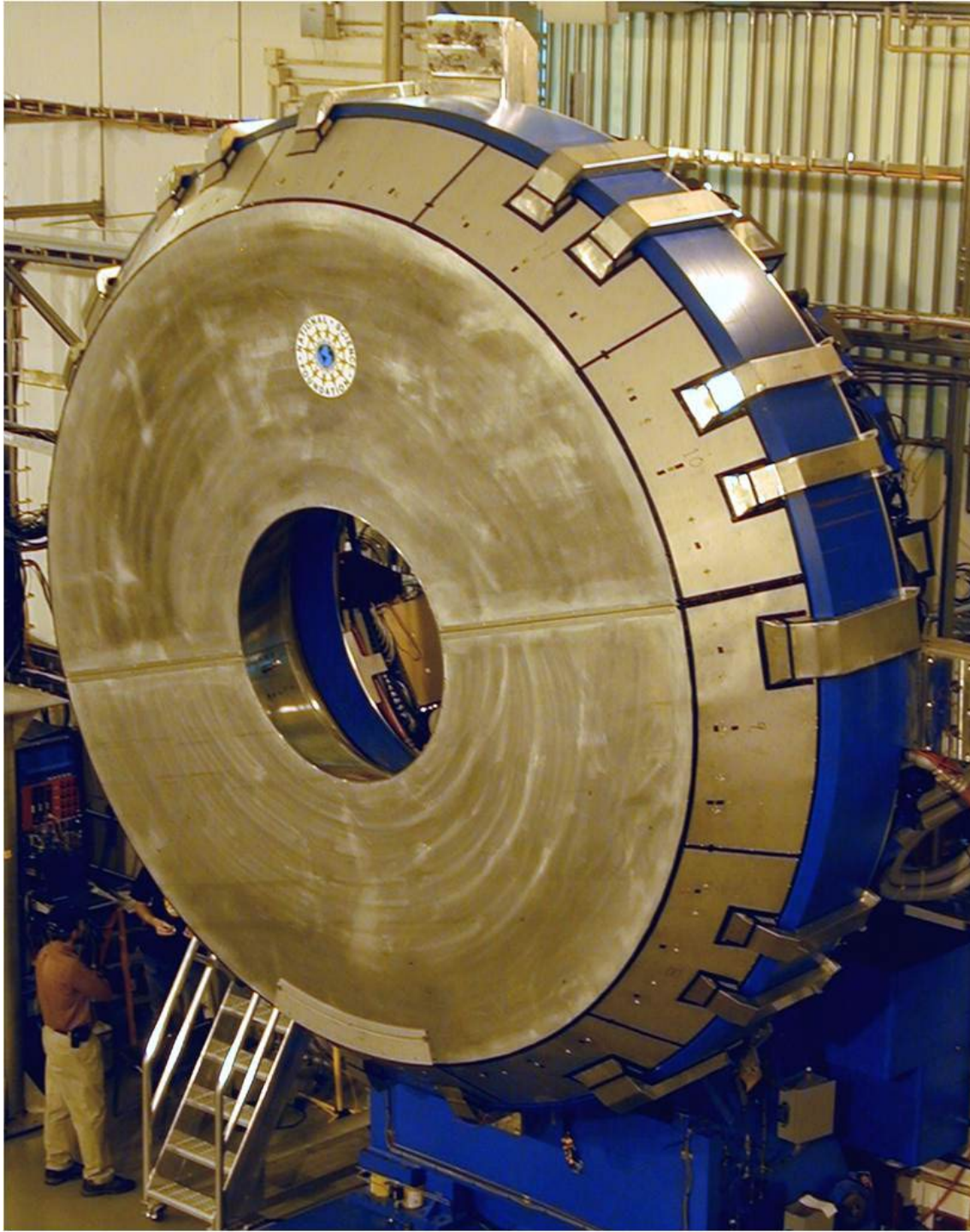








mec



*Congratulations, Jim!  
I look forward to seeing  
you in Bloomington soon!*