

# CHRNS 30 METER SANS INSTRUMENT

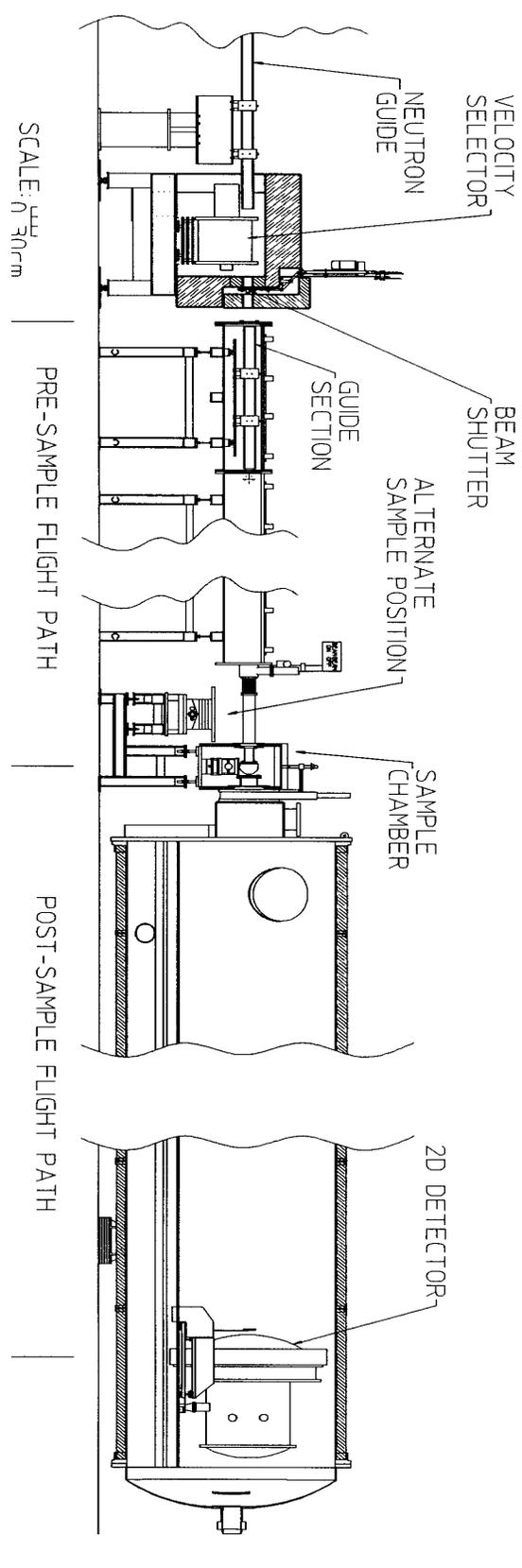


Figure 1: Schematics of the 30 m SANS instruments. The only difference between the two instruments is the sample-to-detector distance (13 m for NG3 and 15 m for NG7)

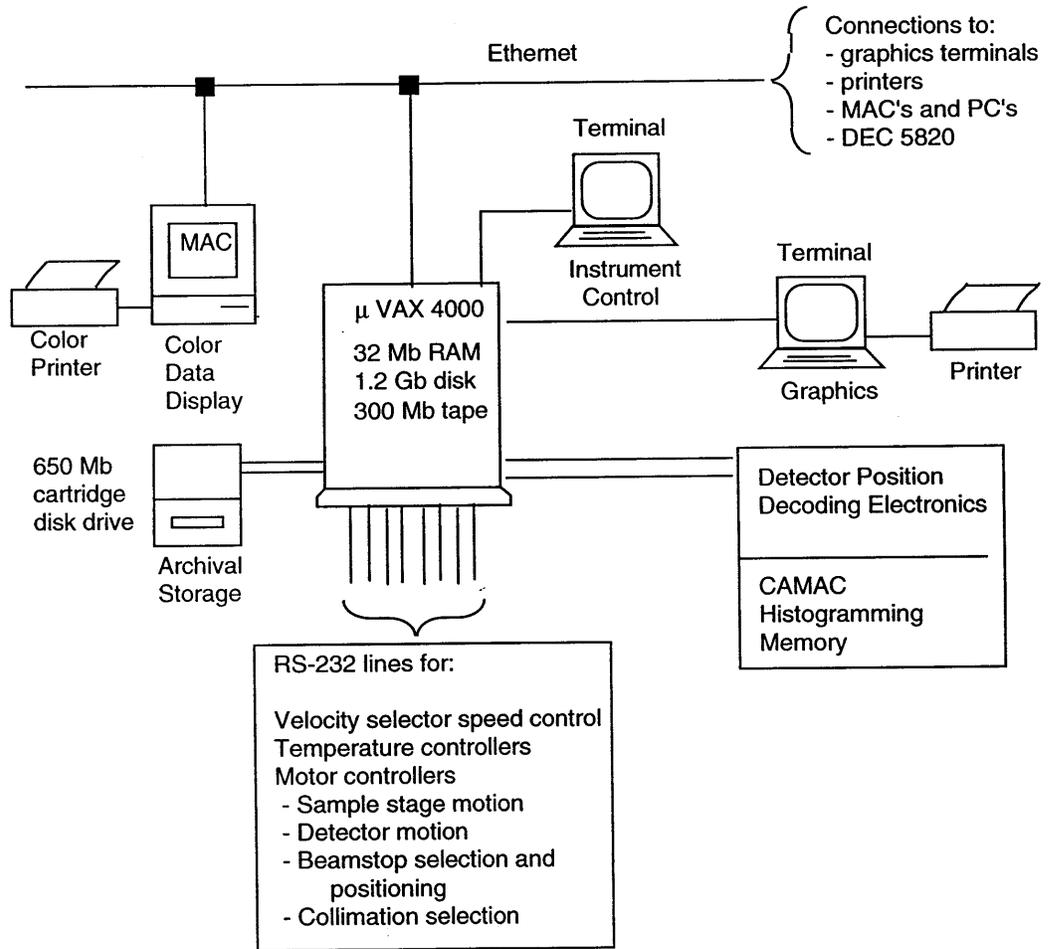


Figure 2: Schematics of the data acquisition hardware

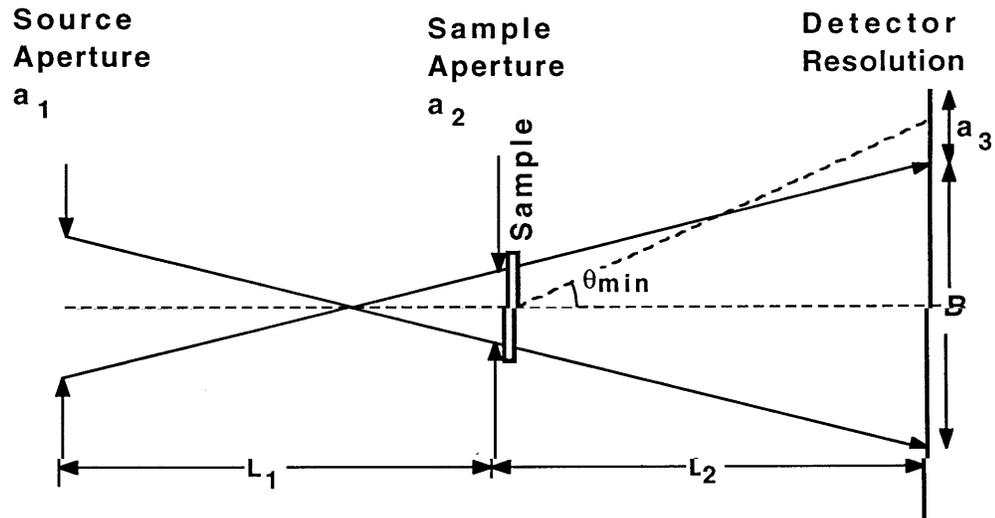


Figure 3: Collimation Geometry

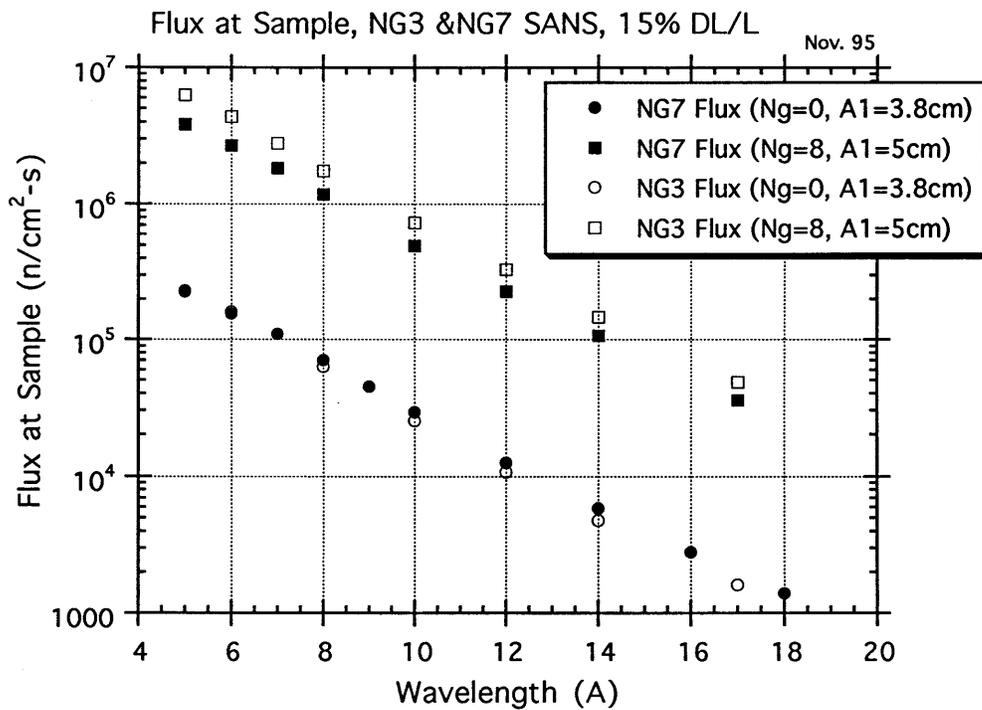


Figure 4: Neutron Flux ( $n/cm^2 \cdot s$ ) at the sample position for NG3-SANS and NG7-SANS for 15% wavelength spread and 20% NW reactor power. The two sets of data correspond to 0 guide and 8 guides inserted respectively.

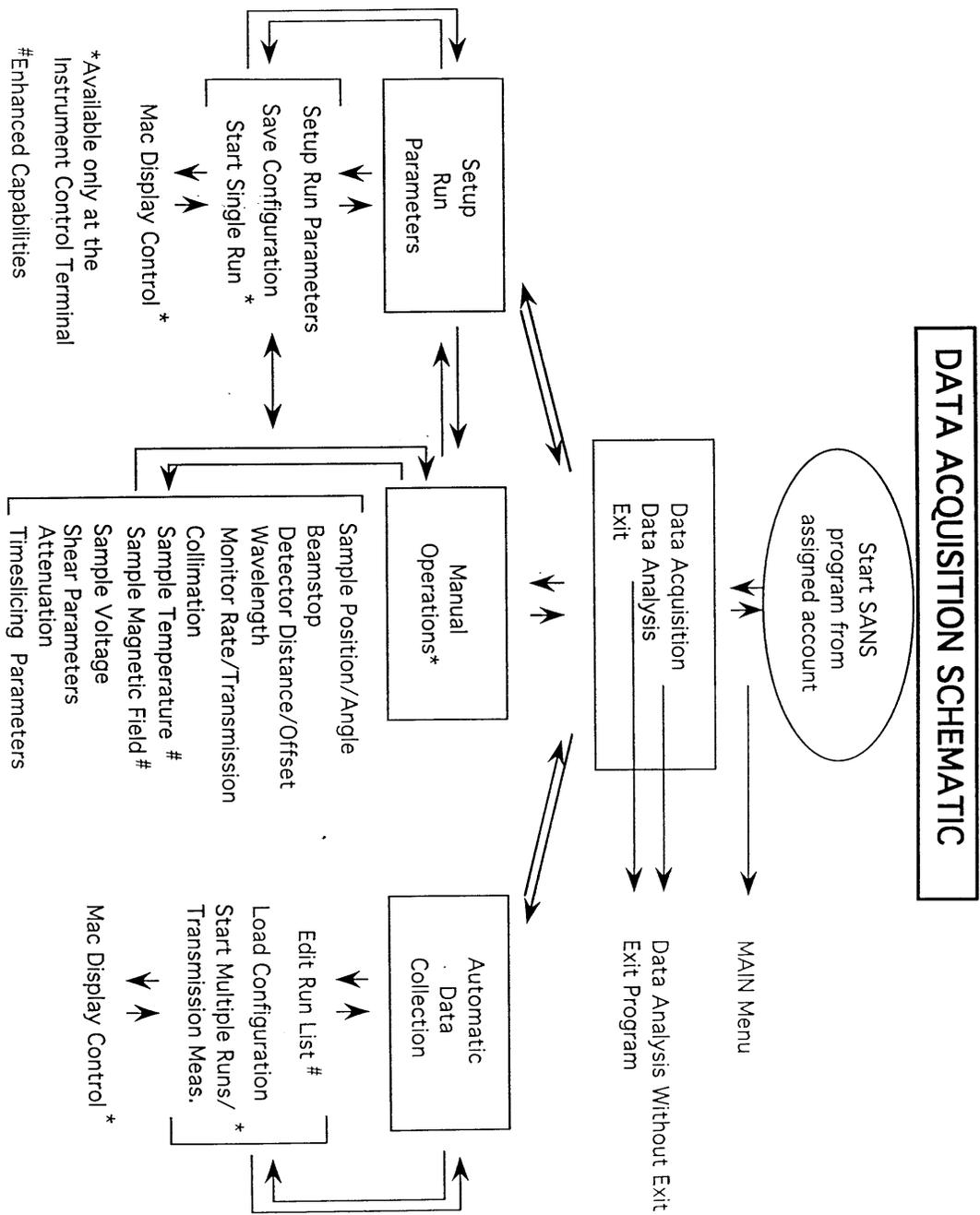


Figure 5: Flow Chart of the main data acquisition program, SANS.

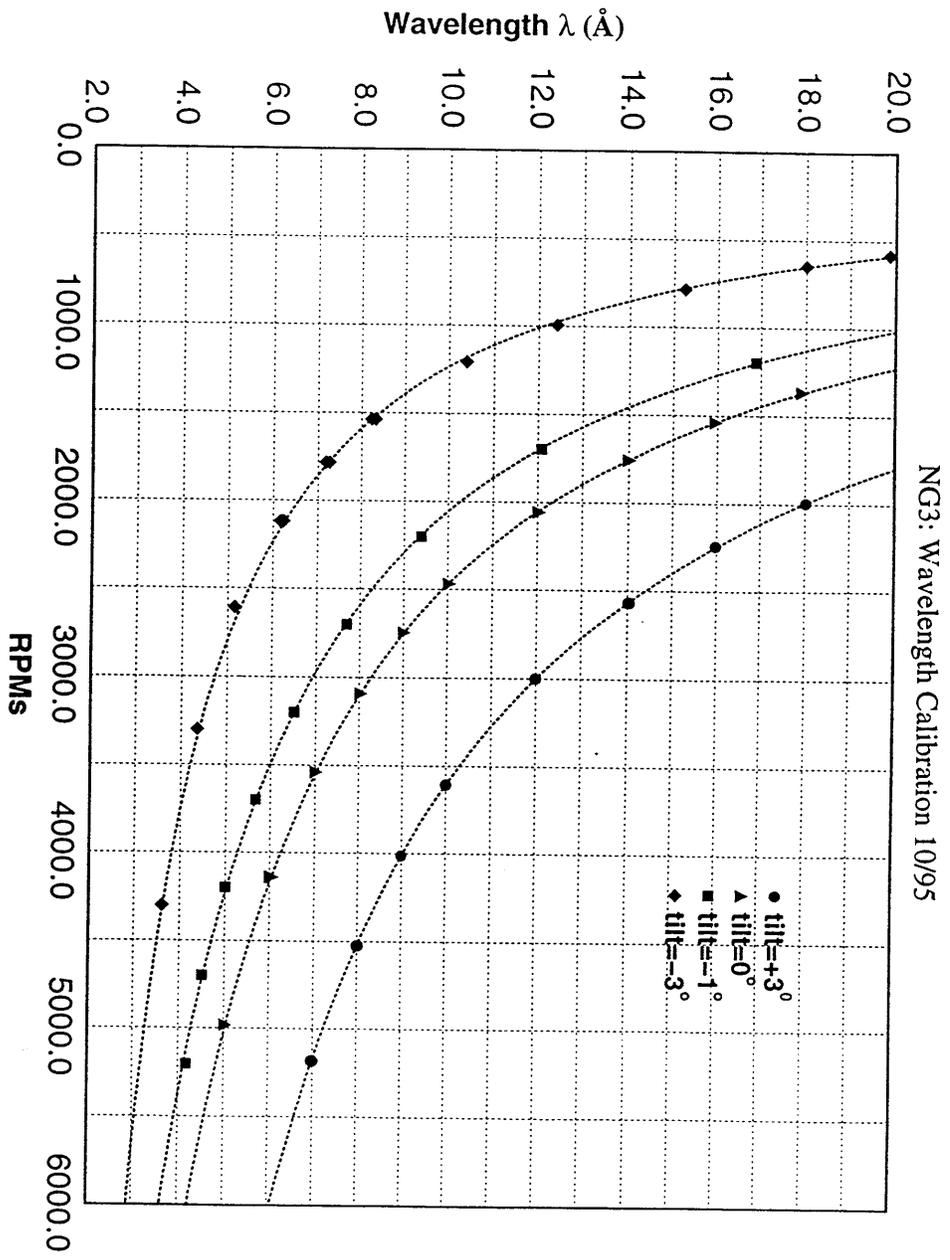


Figure 6: Wavelength calibration of the NG3 SANS Instrument velocity selector

# NG7 Wavelength Calibration

May 20, 1996

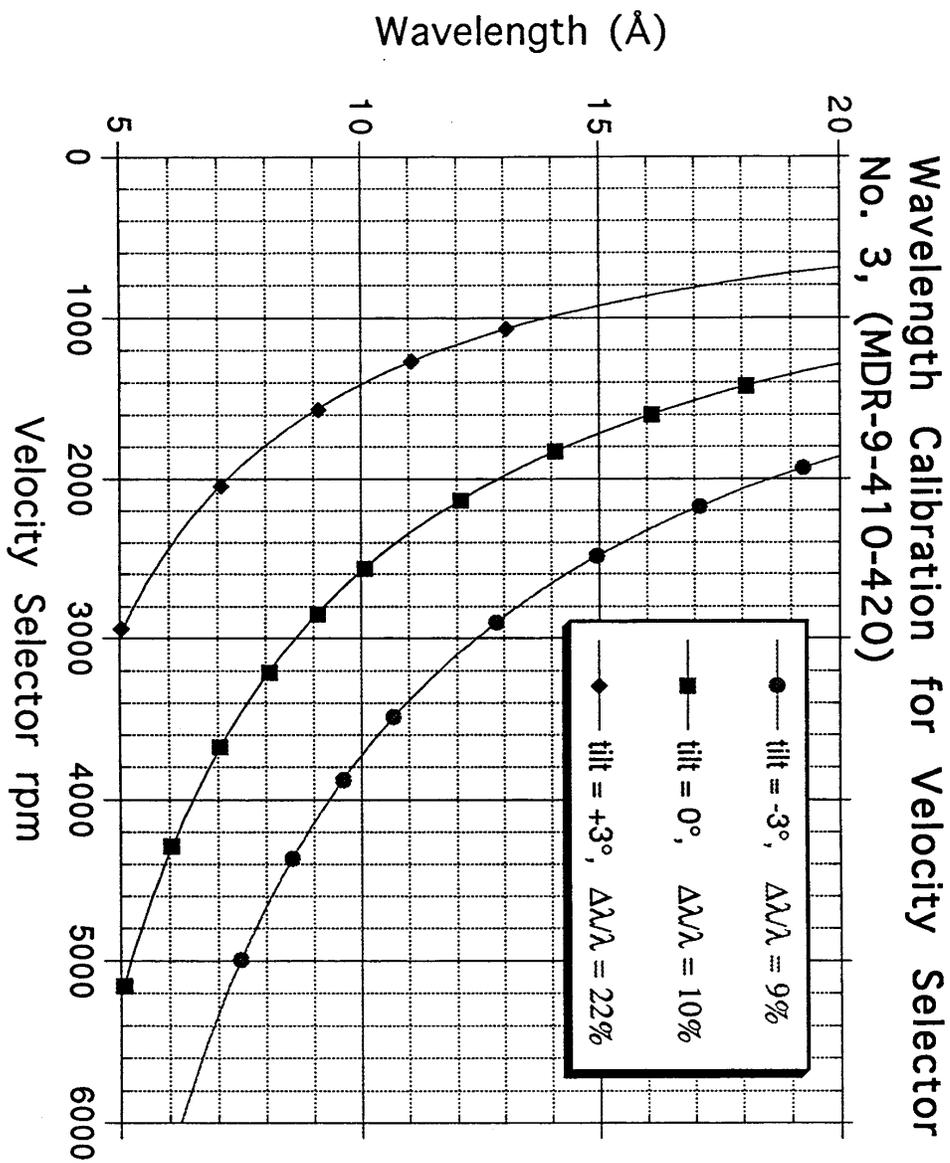


Figure 7: Wavelength calibration of the NG7 SANS Instrument velocity selector