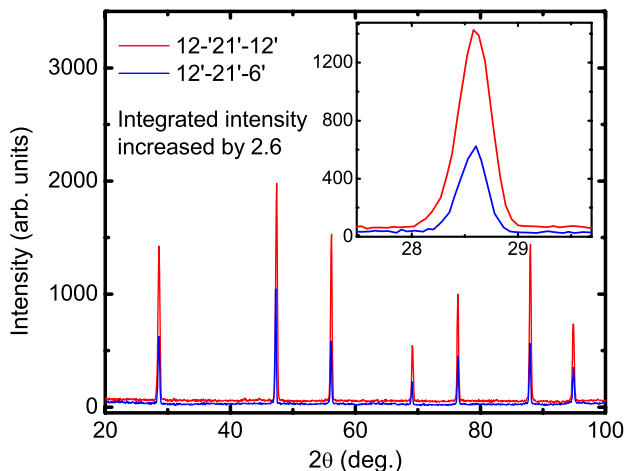
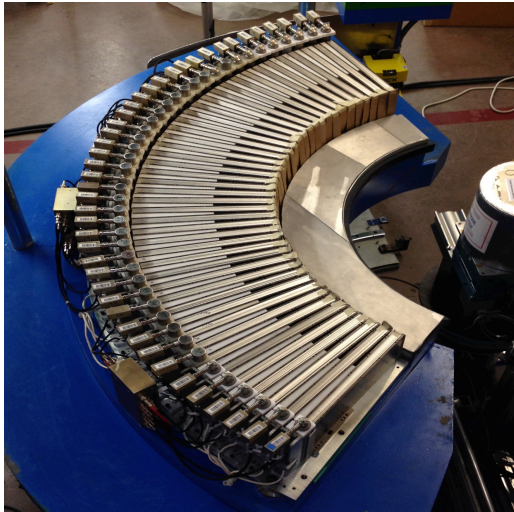


New collimators and improved efficiency of HB-2A Powder Diffractometer



Top: New collimators and improved shielding.
Bottom: HB-2A diffraction pattern with old 6' and new 12' collimators.

HB-2A pre-detector 6' collimators successfully replaced with new 12' collimators

During the HFIR outage engineers, technicians and instrument staff worked to replace the 44 pre-detector collimators on HB-2A.

Significant increase in measured flux

Commissioning measurements have confirmed an intensity increase of 2.6 with a signal to noise efficiency increase of 1.5.

Improvements to HB-2A

- Intensity increase and improved signal to noise will result in an increase in the efficiency and performance of HB-2A.
- Sample positioning and alignment less critical allowing better optimization of experiments.
- Faster counting times will allow more research to be conducted at HB-2A.

