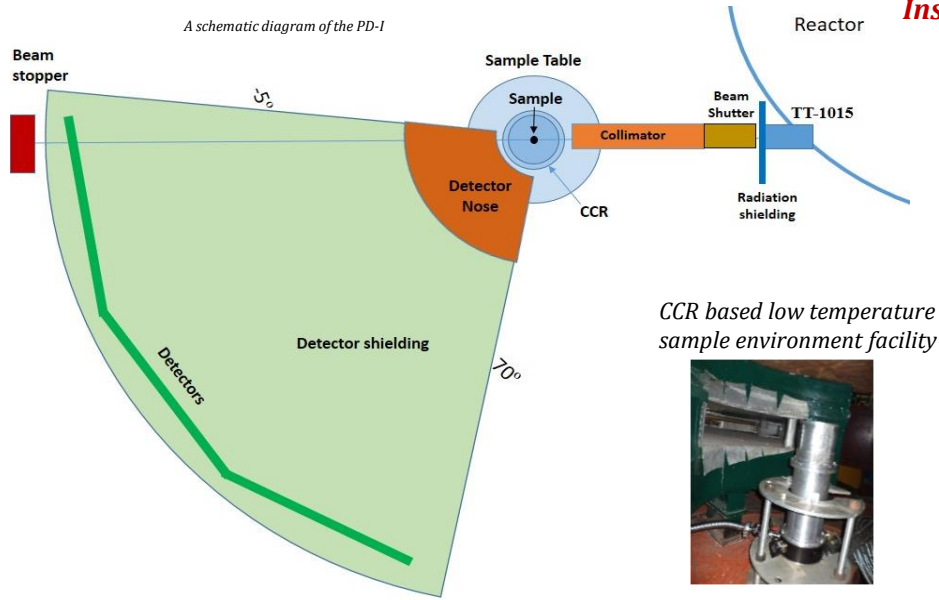


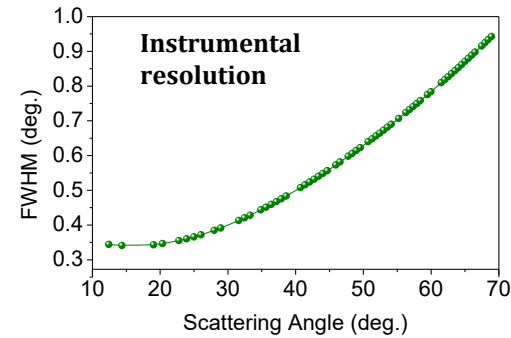
Powder Diffractometer (PD-I) for Magnetic Correlation Study

A schematic diagram of the PD-I



Instrumental details

The detector shielding of the PD-I

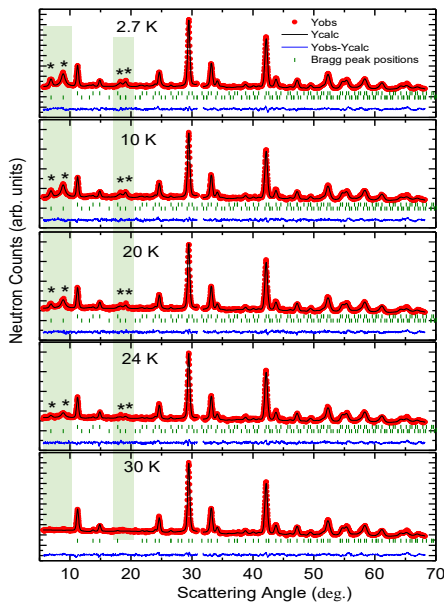


Instrumental parameters of PD-I

| | |
|------------------------------------|---|
| Beam hole No. | TT1015 |
| Monochromator | Si (422) |
| Monochromator take off angle (2θM) | 60 |
| Wavelength | 1.094 Å |
| Detector | 3 linear position sensitive ³ He detectors (1m each) |
| Flux | 5×10 ⁵ n/cm ² /sec |
| Scattering Angle | 5° ≤ 2θ ≤ 70° |
| (Sinθ/λ)max | 0.65 Å ⁻¹ |
| Resolution (Δd/d) | 1% |
| Sample environment | Temp: 2-300 K |

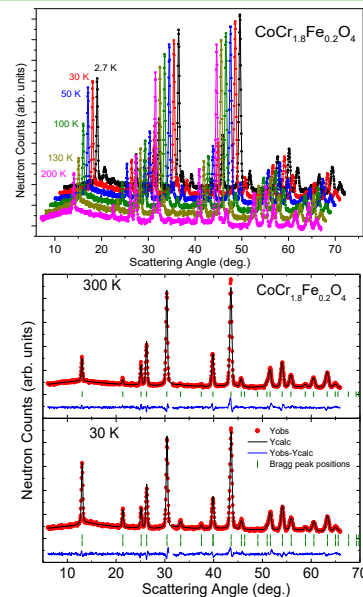
Recent Experimental Results

Magnetic Ground State of 2D Layered Compound Na₂Co₂TeO₆



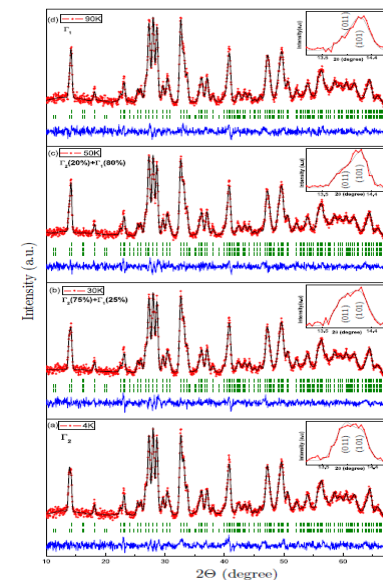
Phys. Rev. B 97, 224413 (2018)

Spin Correlations in Large Magnetoresistive Perovskite La_{0.6}Sr_{0.4}CoO₃



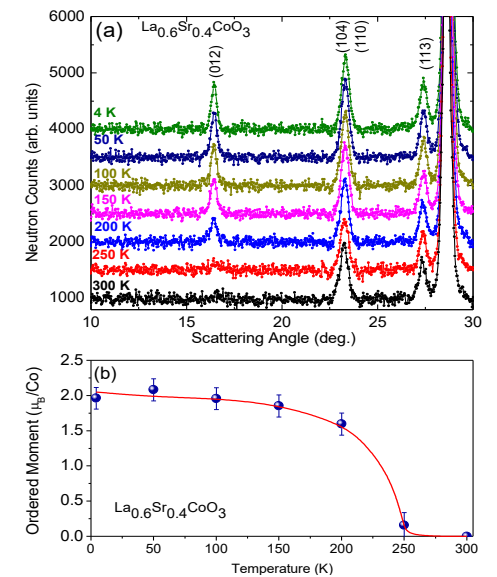
J. Appl. Phys. 121, 223903 (2017)

Spin Reorientation in Perovskite NdMn_{0.5}Fe_{0.5}O₃



Phys. Rev. B 96, 144420 (2017)

Spin Correlations in Large Magnetoresistive Perovskite La_{0.6}Sr_{0.4}CoO₃



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