NPDF experiment report

Report generated: **July 24, 2008 at 9:54am**

Proposal: PI: Title:	**20081999** **Nschool** **Neutron School 2008**
Samples: Data sets:	**0** **14 data sets - 1.6 neutron days**

Publishing NPDF results

Publications are the main measure of success for user facilities such as the Lujan Center. Please let the instrument scientist know of any of your papers containing NPDF data. If possible provide an electronic reprint. Most importantly, please use the following acknowledgement when publishing results based on data measured at the Lujan Center:
This work has benefited from the use of NPDF at the Lujan Center at Los Alamos Neutron Science Center, funded by DOE Office of Basic Energy Sciences. Los Alamos National Laboratory is operated by Los Alamos National Security LLC under DOE Contract DE-AC52-06NA25396. The upgrade of NPDF has been funded by NSF through grant DMR 00-76488.

NPDF reference

The following reference should be used when refering to the instrument NPDF in pubications:

> Th. Proffen, T. Egami, S.J.L. Billinge, A.K. Cheetham, D. Louca and J.B. Parise, Building a high resolution total scattering powder diffractometer - Upgrade of NPD at MLNSC, *Appl. Phys. A* **74**, S163-S165 (2002).

Run information

Below is a list of all runs collected on NPDF, that relate to proposal 20081999. Note that the table does not include calibration runs that might be needed for data reduction. These files are, however, included in the zip archive.

Run	Title	Time (h)	Date
1031	Run 1031: LMO (cooling), T= 277.0 C, HIPPO-furnace	2.2	2004-04-19
1030	Run 1030: LMO, T= 877.0 C, HIPPO-furnace	3.0	2004-04-19
1029	Run 1029: LMO, T= 827.0 C, HIPPO-furnace	3.0	2004-04-19
1028	Run 1028: LMO, T= 777.0 C, HIPPO-furnace	3.0	2004-04-19
1027	Run 1027: LMO, T= 707.0 C, HIPPO-furnace	3.0	2004-04-18
1026	Run 1026: LMO, T= 607.0 C, HIPPO-furnace	3.0	2004-04-18
1025	Run 1025: LMO, T= 527.0 C, HIPPO-furnace	3.0	2004-04-18
1024	Run 1024: LMO, T= 477.0 C, HIPPO-furnace	3.0	2004-04-18
1023	Run 1023: LMO, T= 467.0 C, HIPPO-furnace	3.0	2004-04-18
1022	Run 1022: LMO, T= 457.0 C, HIPPO-furnace	3.0	2004-04-18
1021	Run 1021: LMO, T= 447.0 C, HIPPO-furnace	3.0	2004-04-17
1020	Run 1020: LMO, T= 427.0 C, HIPPO-furnace	3.0	2004-04-17
1019	Run 1019: LMO, T= 377.0 C, HIPPO-furnace	3.0	2004-04-17
1018	Run 1018: LMO - RT (before), HIPPO-furnace	1.0	2004-04-17

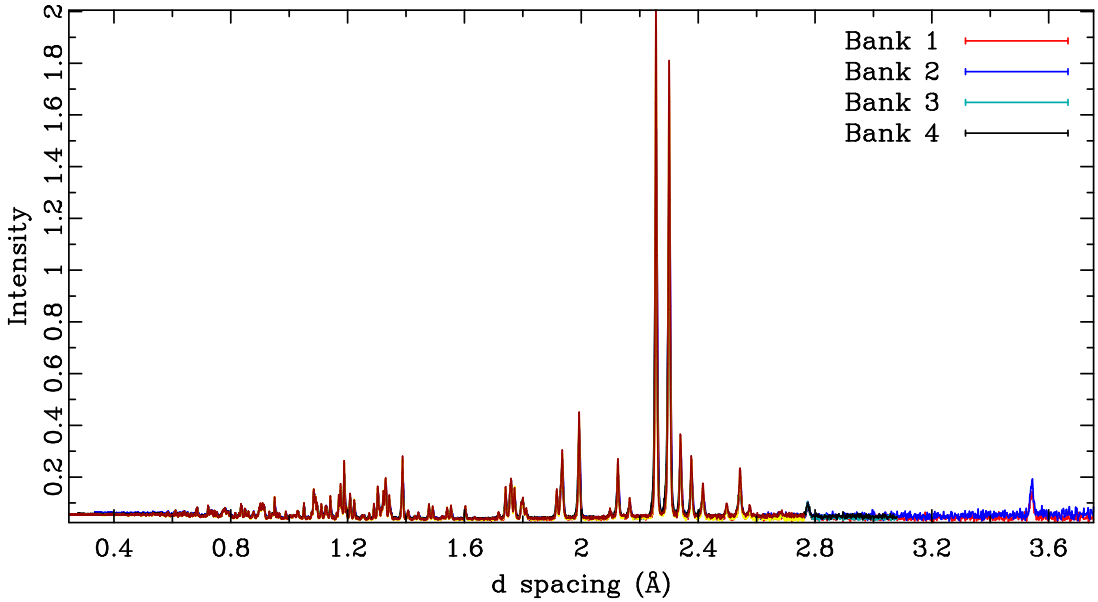

Figure 1: GSAS: Run 1031: LMO (cooling), T= 277.0 C, HIPPO-furnace

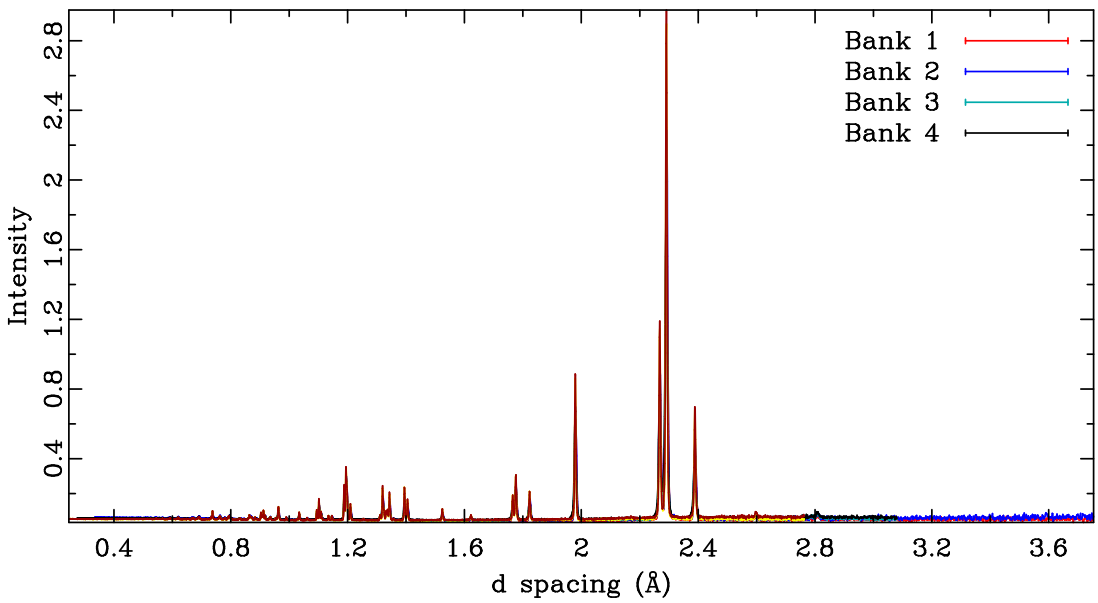

Figure 2: GSAS: Run 1030: LMO, T= 877.0 C, HIPPO-furnace

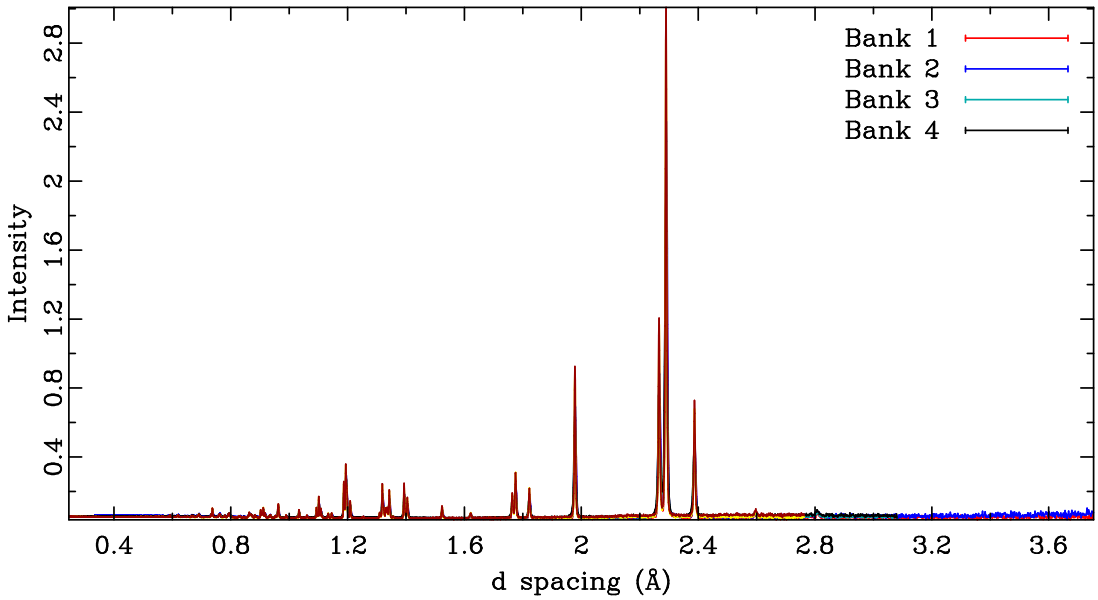

Figure 3: GSAS: Run 1029: LMO, T= 827.0 C, HIPPO-furnace

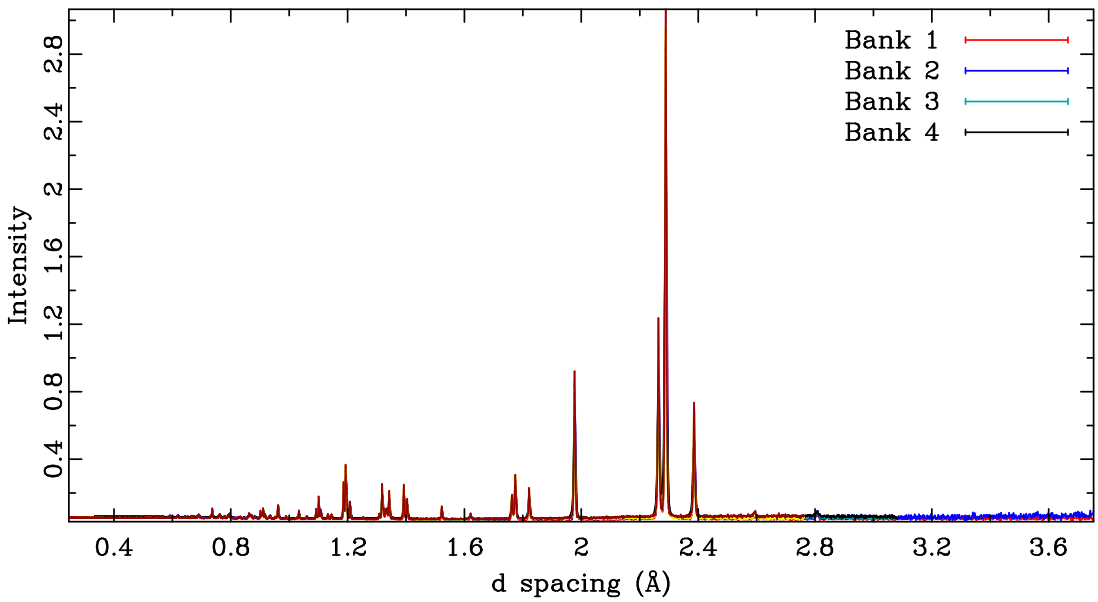

Figure 4: GSAS: Run 1028: LMO, T= 777.0 C, HIPPO-furnace

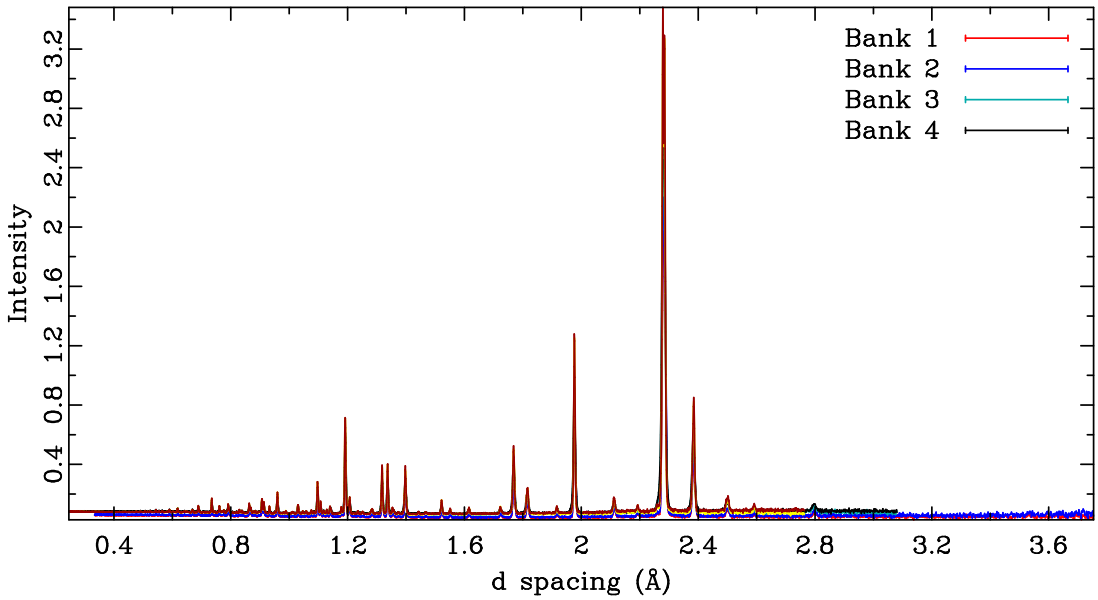

Figure 5: GSAS: Run 1027: LMO, T= 707.0 C, HIPPO-furnace

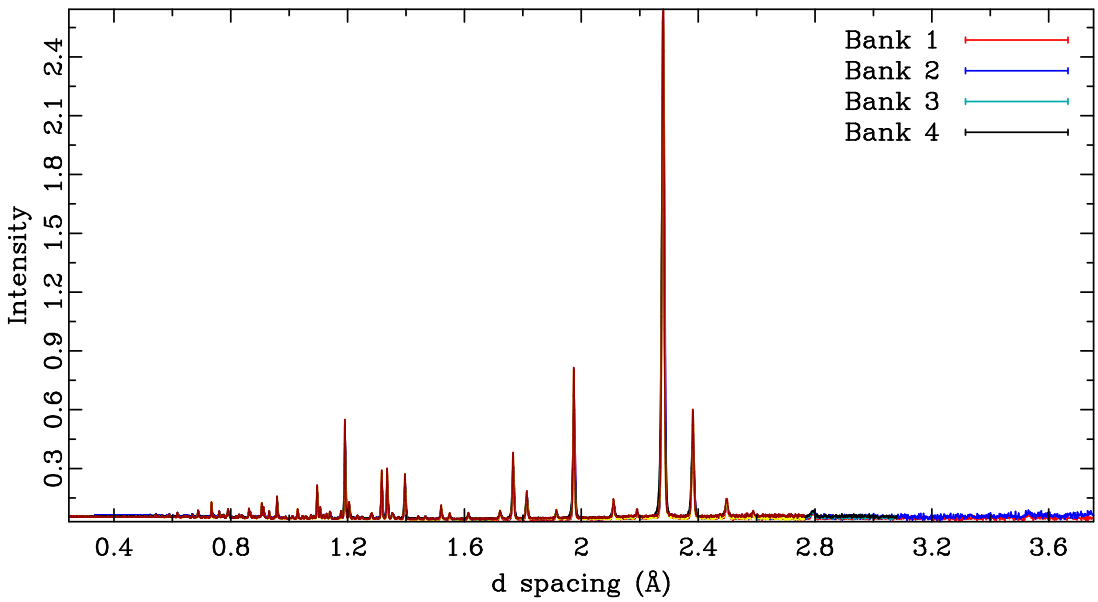

Figure 6: GSAS: Run 1026: LMO, T= 607.0 C, HIPPO-furnace

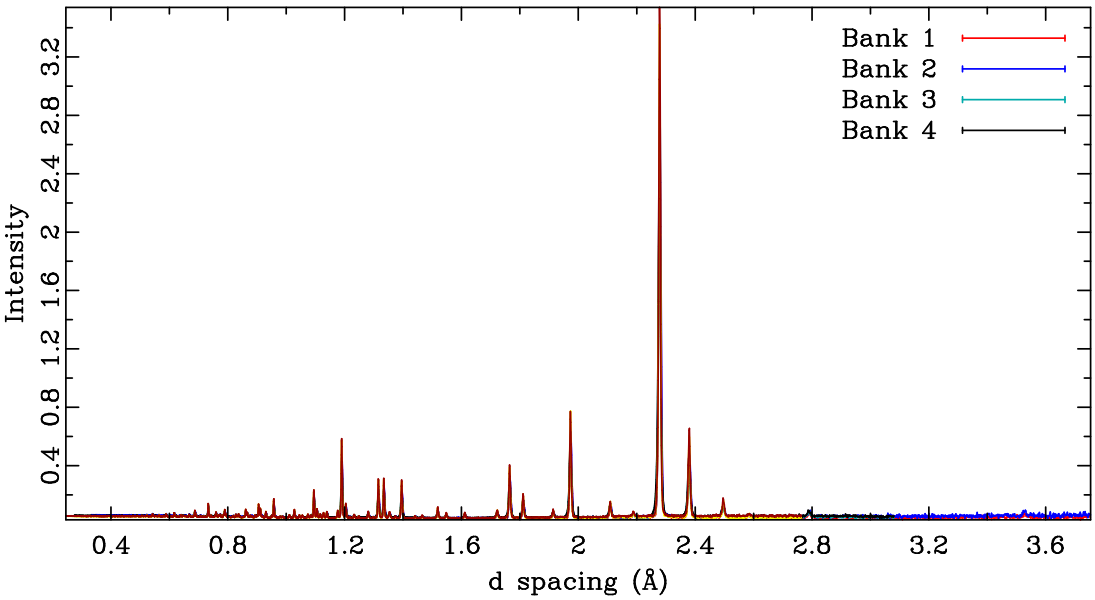

Figure 7: GSAS: Run 1025: LMO, T= 527.0 C, HIPPO-furnace

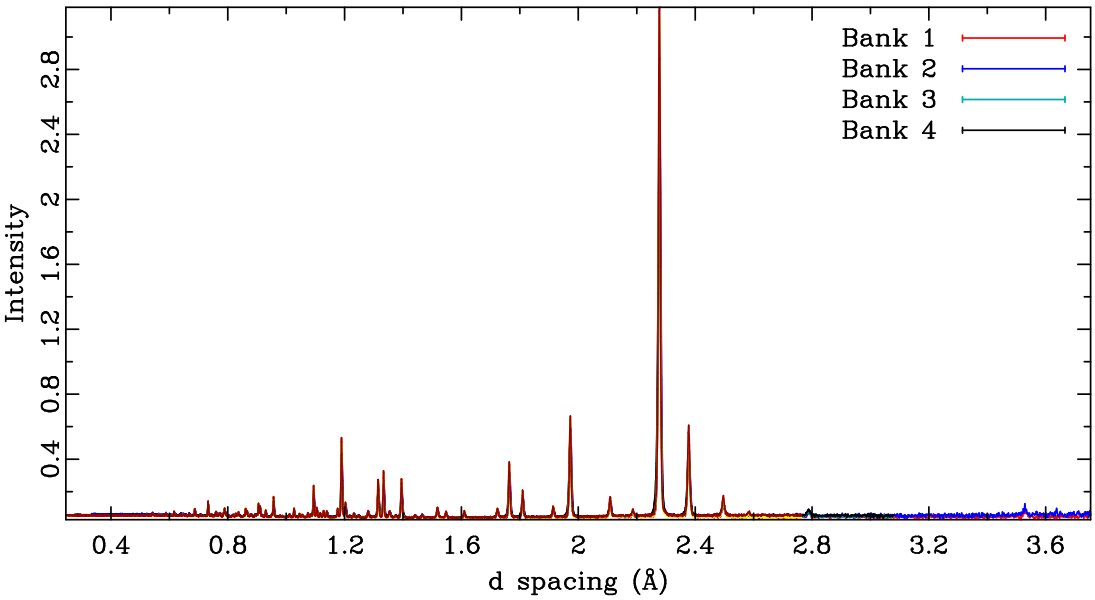

Figure 8: GSAS: Run 1024: LMO, T= 477.0 C, HIPPO-furnace

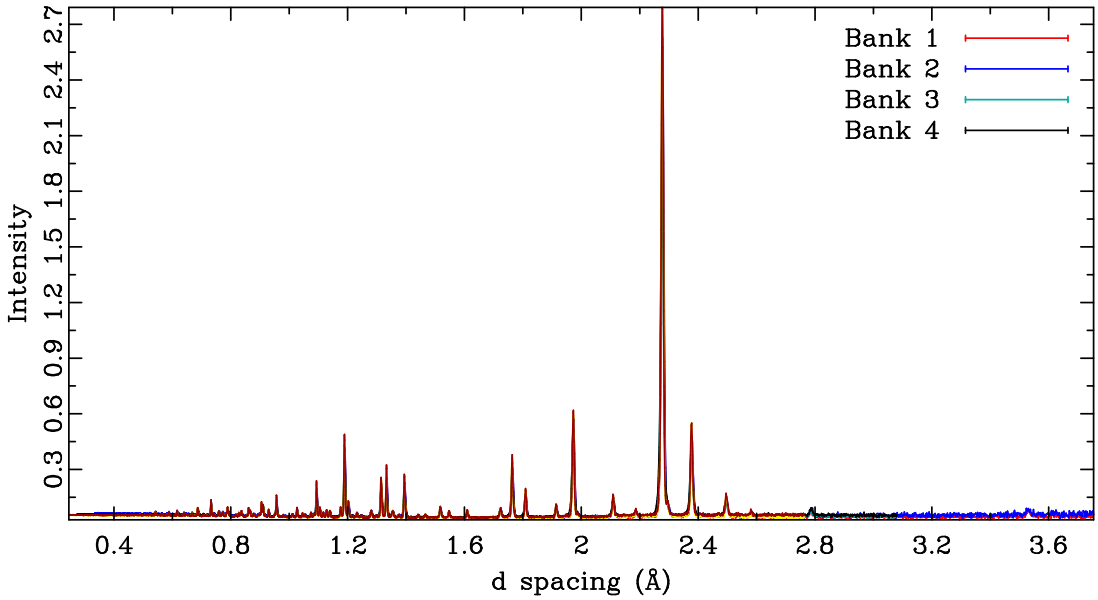

Figure 9: GSAS: Run 1023: LMO, T= 467.0 C, HIPPO-furnace

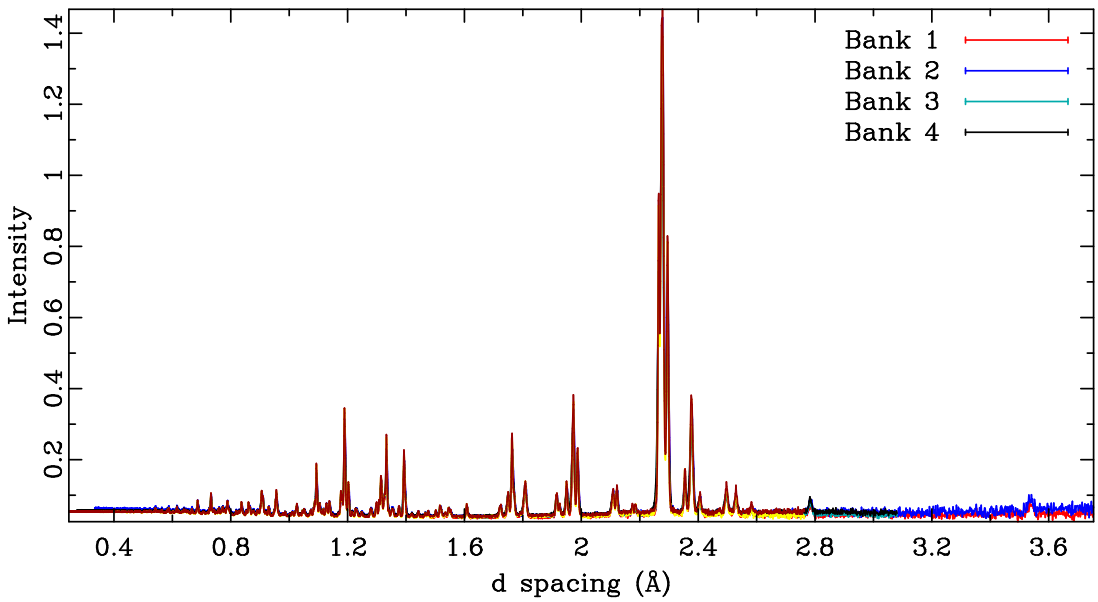

Figure 10: GSAS: Run 1022: LMO, T= 457.0 C, HIPPO-furnace

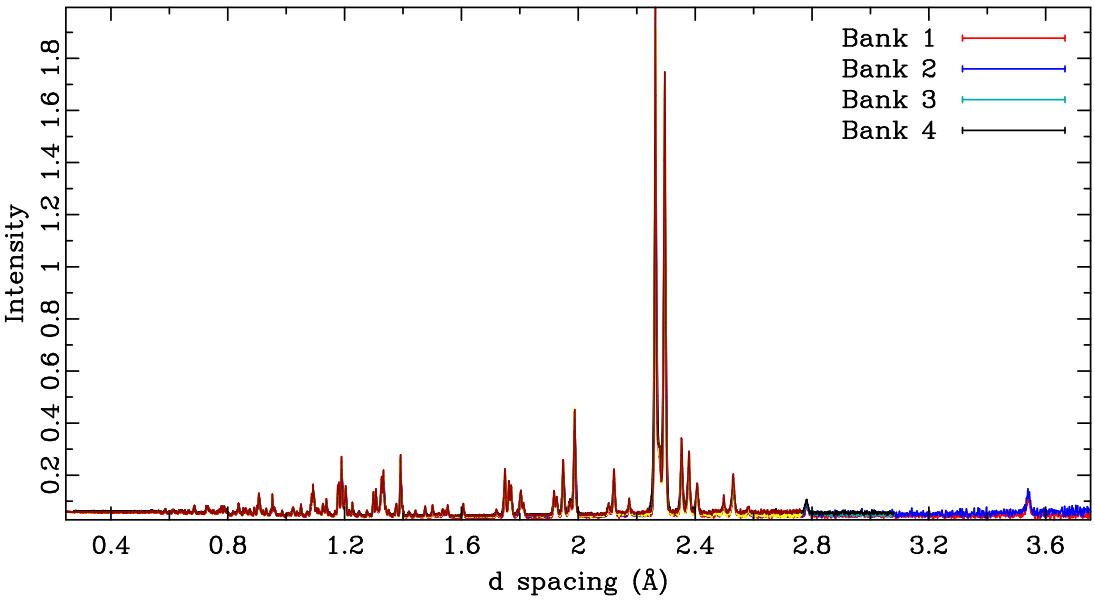

Figure 11: GSAS: Run 1021: LMO, T= 447.0 C, HIPPO-furnace

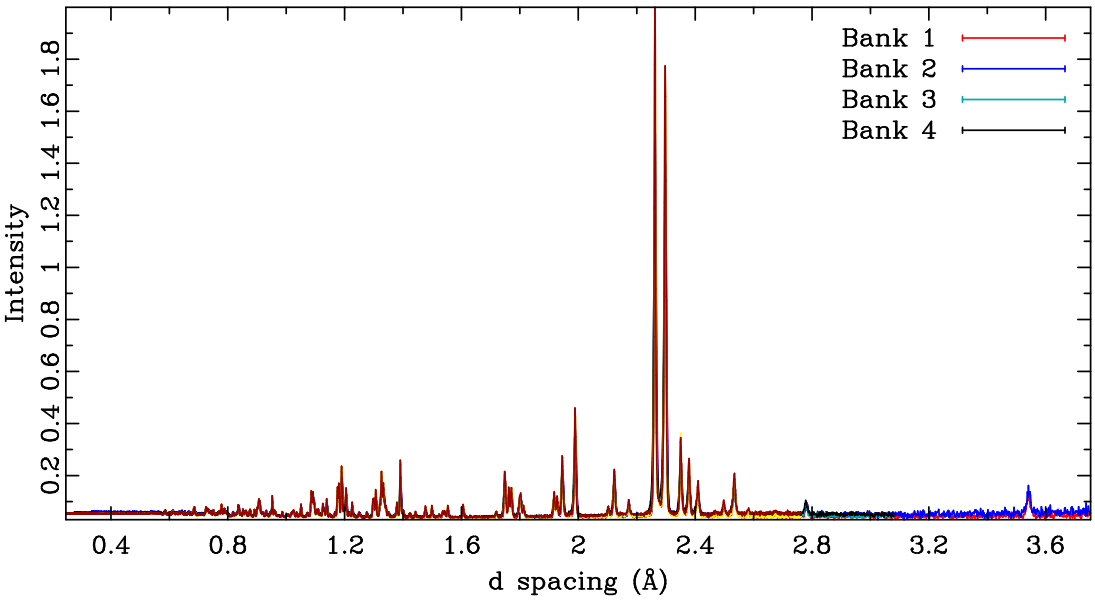

Figure 12: GSAS: Run 1020: LMO, T= 427.0 C, HIPPO-furnace

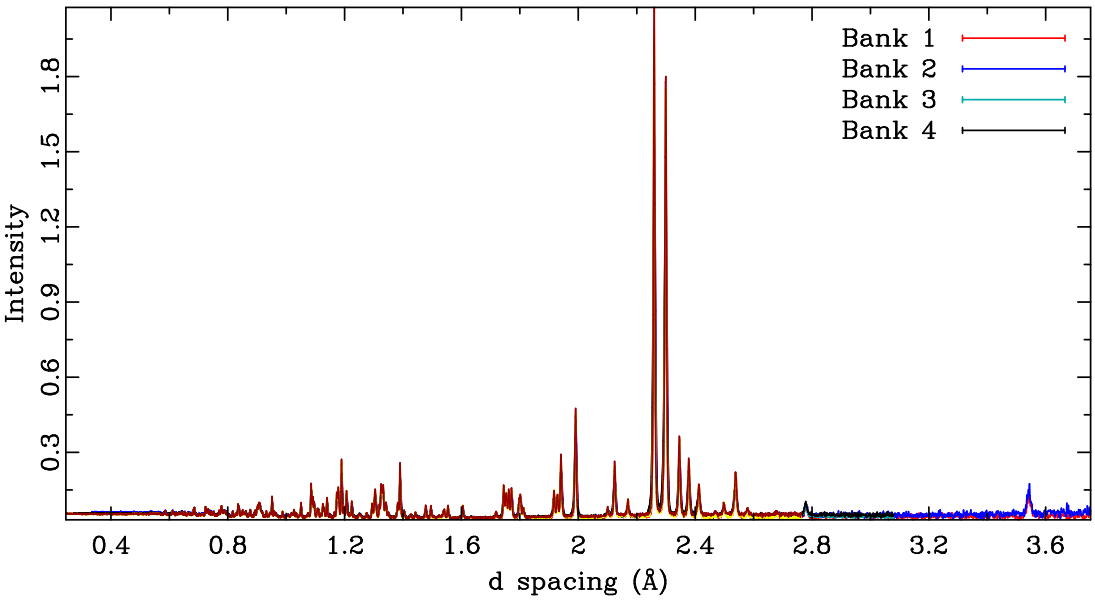

Figure 13: GSAS: Run 1019: LMO, T= 377.0 C, HIPPO-furnace

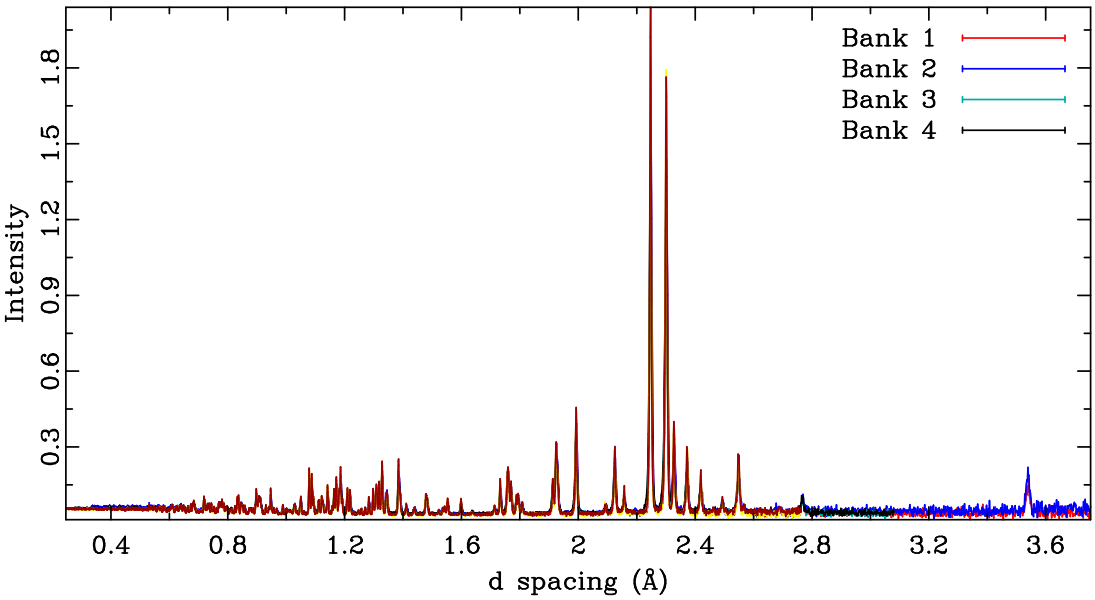

Figure 14: GSAS: Run 1018: LMO - RT (before), HIPPO-furnace

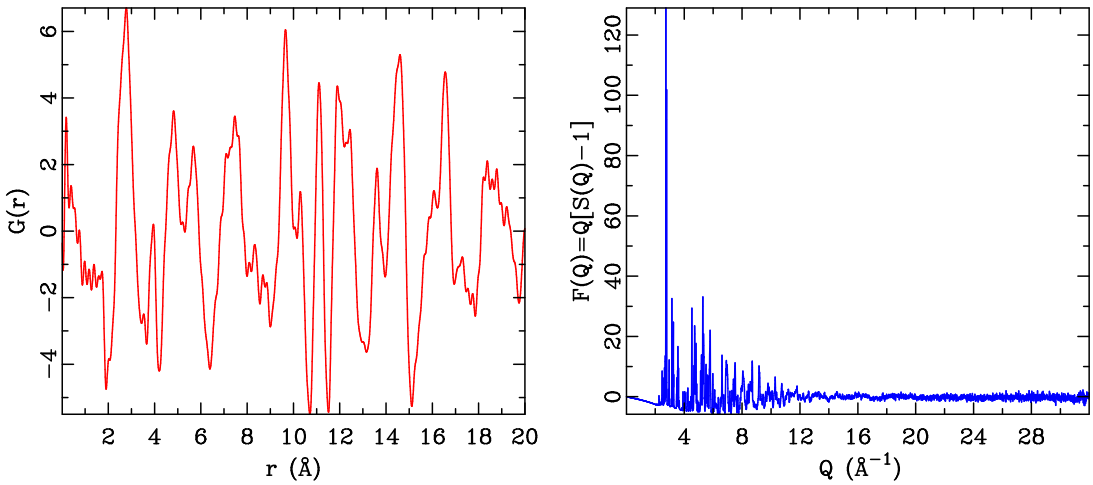

Figure 15: Run 1031: LMO (cooling), T= 277.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

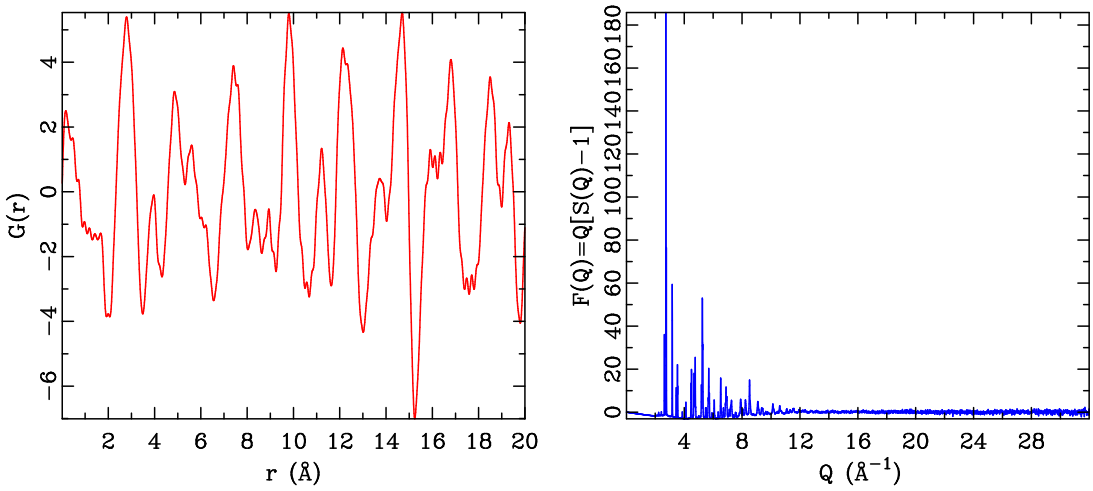

Figure 16: Run 1030: LMO, T= 877.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

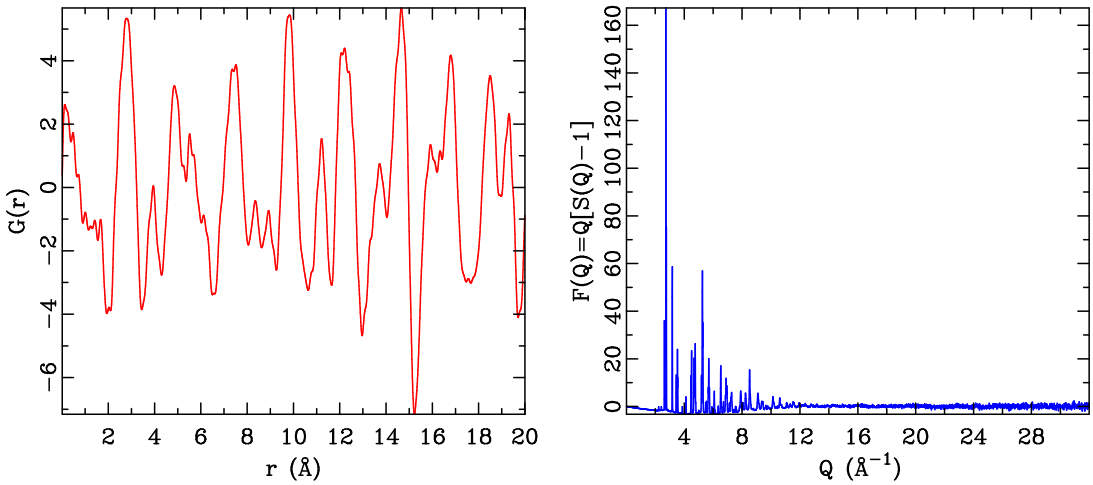

Figure 17: Run 1029: LMO, T= 827.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

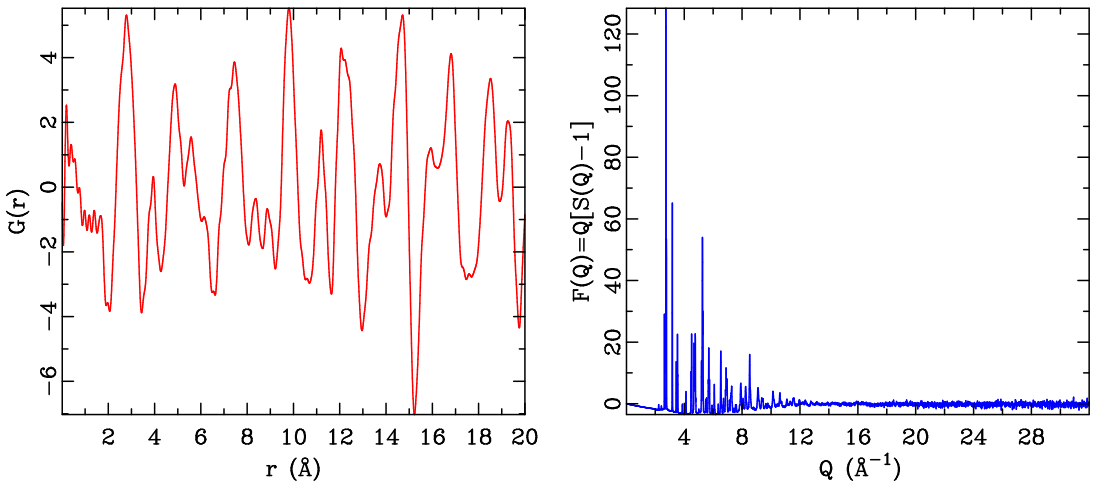

Figure 18: Run 1028: LMO, T= 777.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

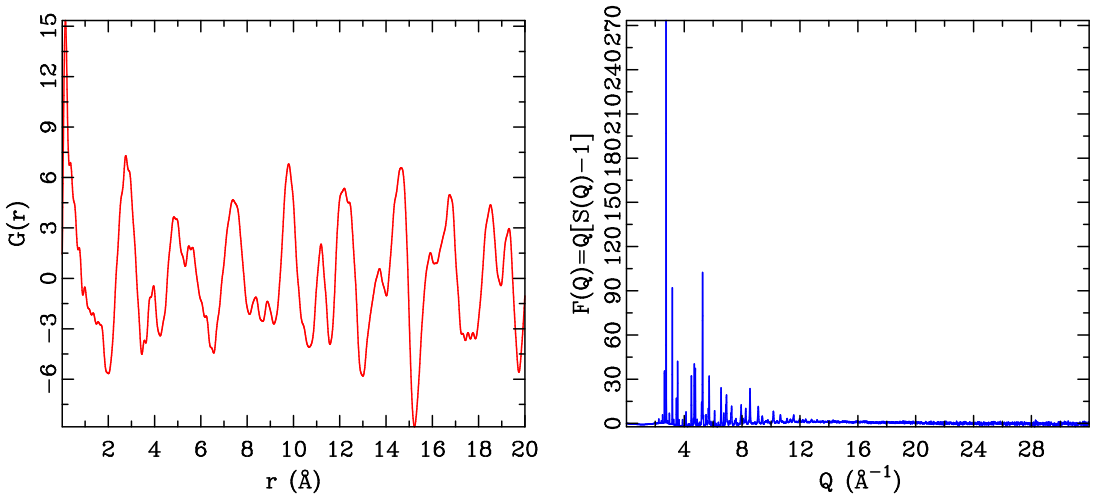

Figure 19: Run 1027: LMO, T= 707.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

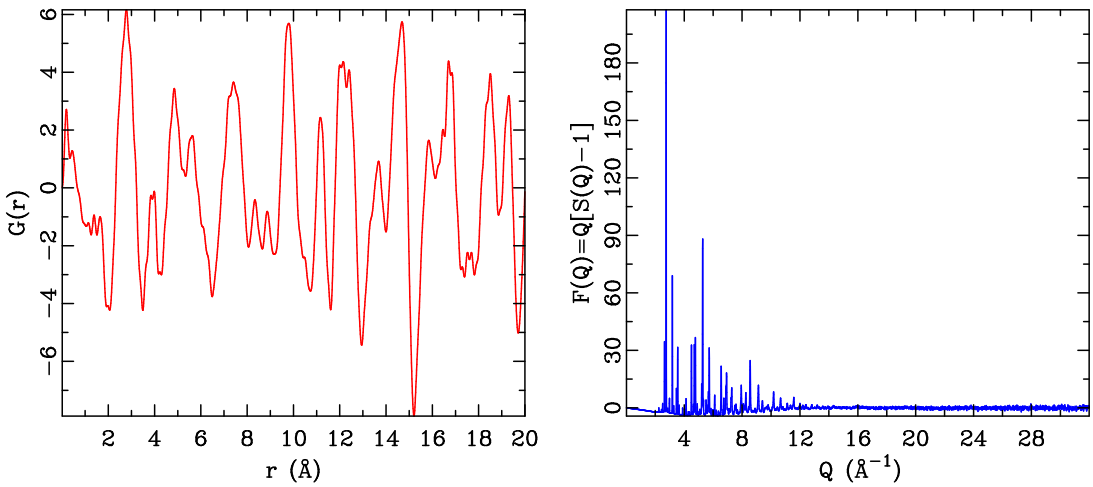

Figure 20: Run 1026: LMO, T= 607.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

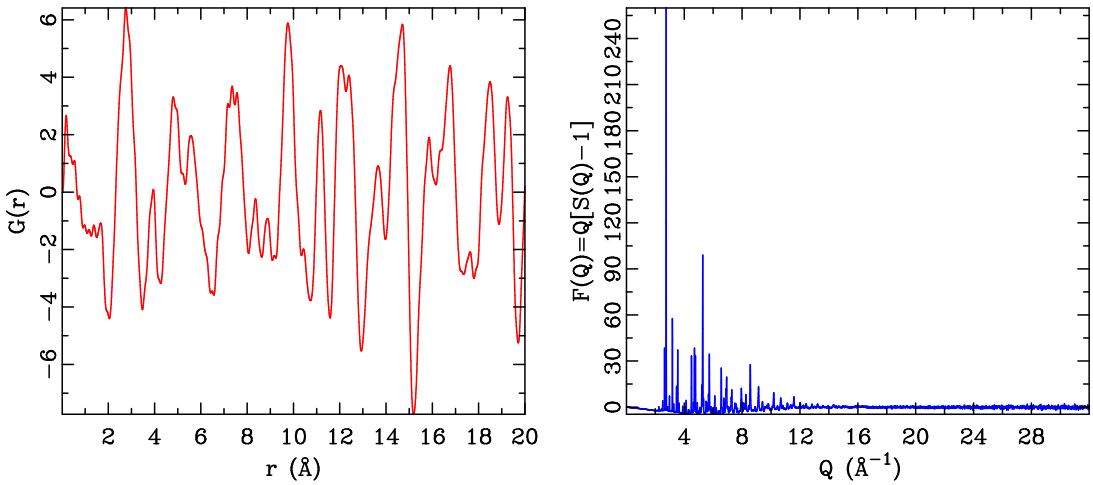

Figure 21: Run 1025: LMO, T= 527.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

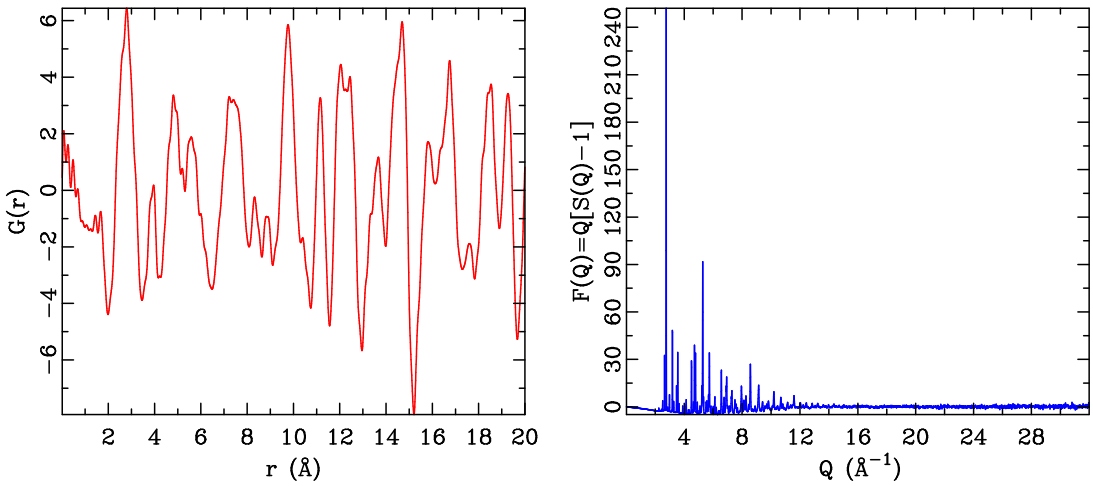

Figure 22: Run 1024: LMO, T= 477.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

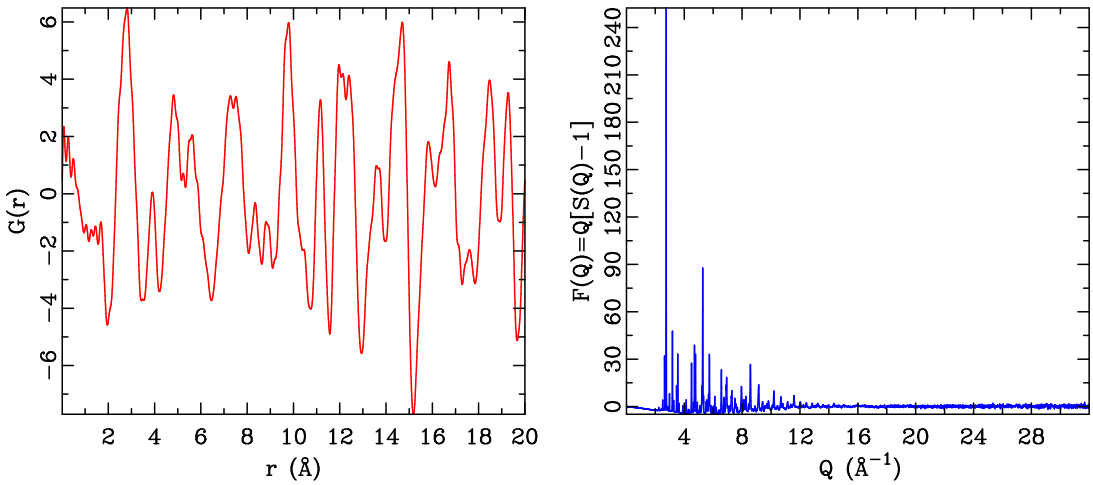

Figure 23: Run 1023: LMO, T= 467.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

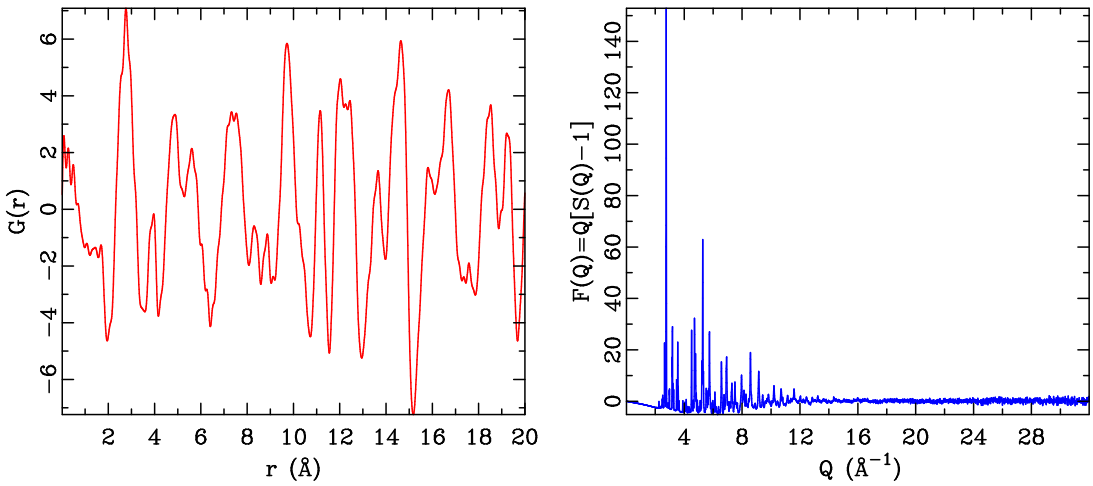

Figure 24: Run 1022: LMO, T= 457.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

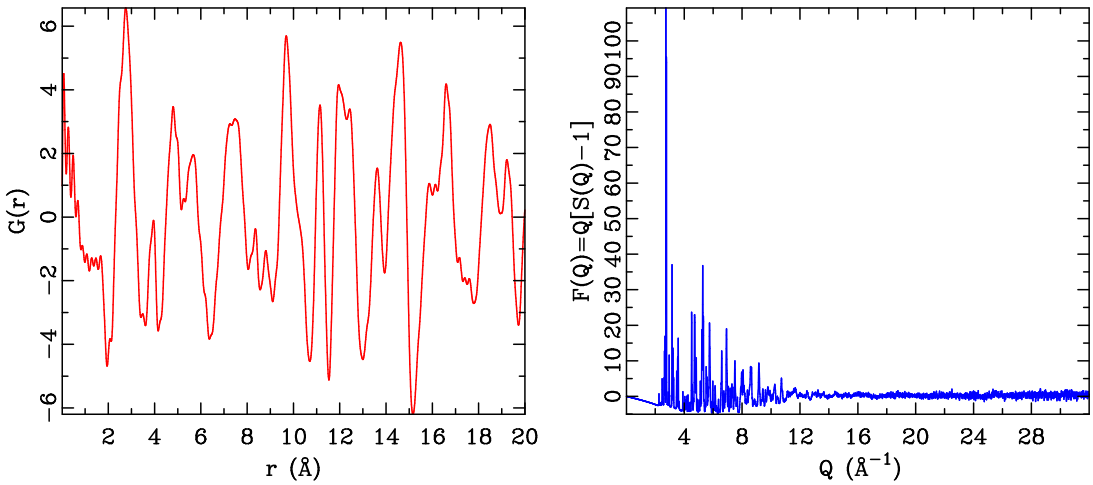

Figure 25: Run 1021: LMO, T= 447.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

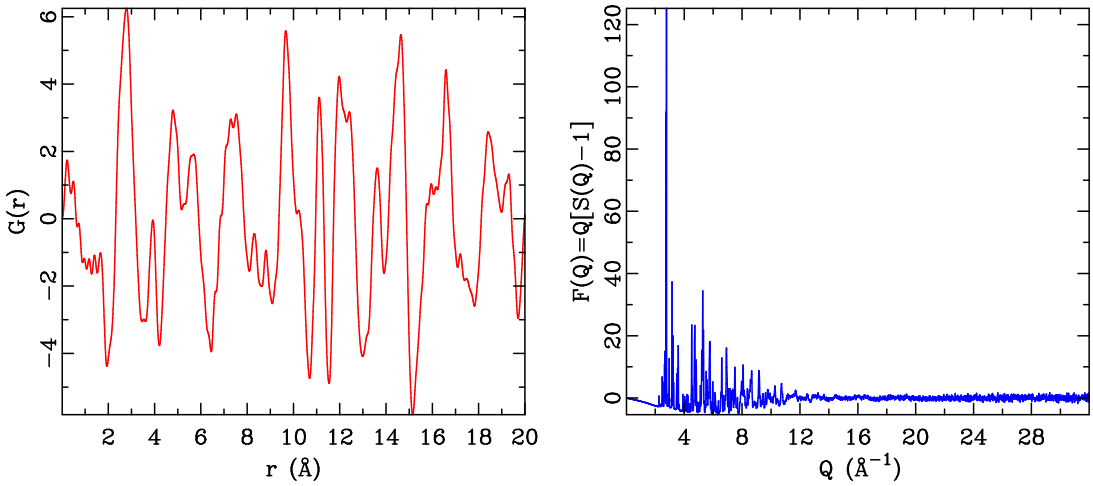

Figure 26: Run 1020: LMO, T= 427.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

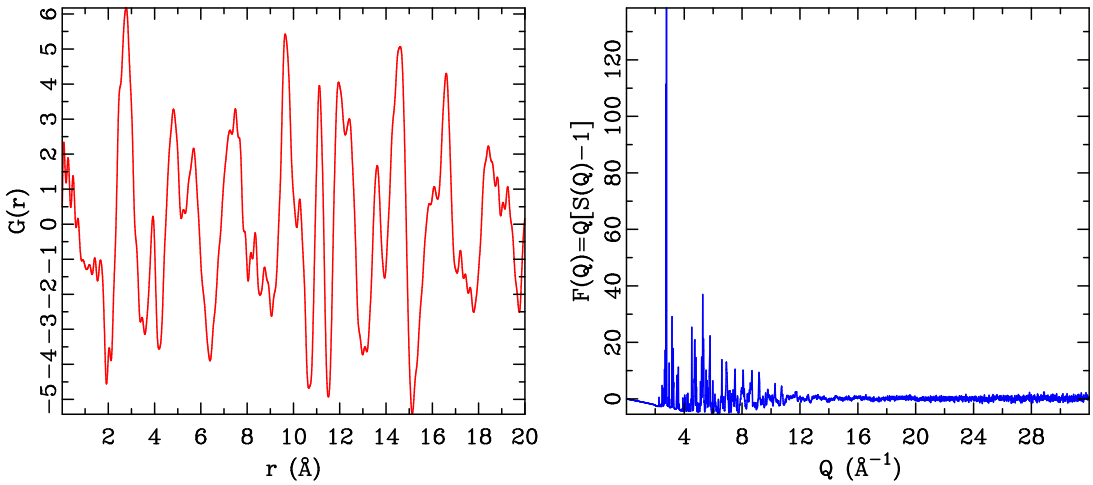

Figure 27: Run 1019: LMO, T= 377.0 C, HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].

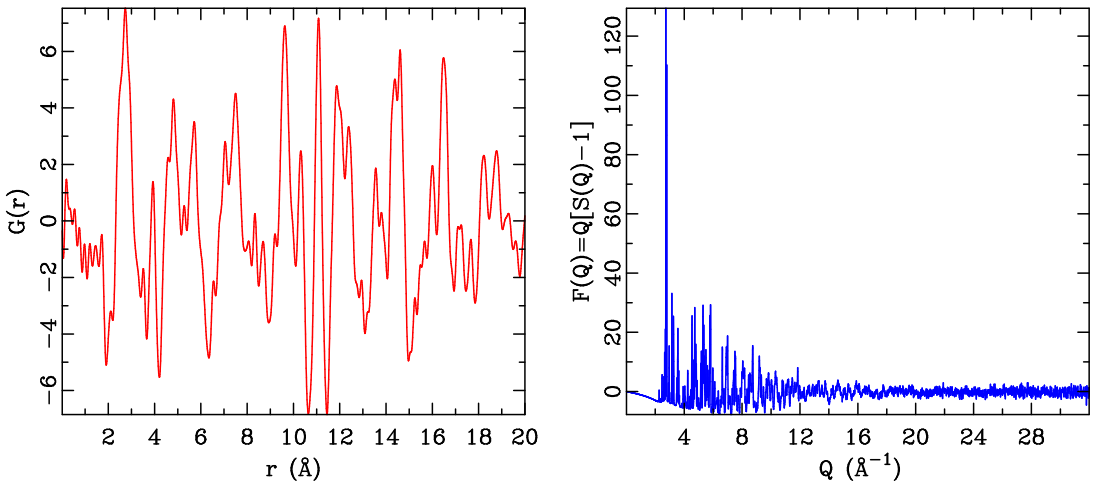

Figure 28: Run 1018: LMO - RT (before), HIPPO-furnace . Left: (r) Right: (Q)=Q[S(Q)-1].