

## Schedule for HRPT

INQ 1) cell nPC12  
own ORI4

2) (Pomjakushin)  
Two-Dimensional  
Antiferromagnet with Square  
Planar  
Coordination:  
 $\text{Sr}_2\text{MnO}_2\text{Cl}_2$   
ORI4

3) ORI4

4) Energy Storage  
Cryofurnace

5) in-situ neutron diffraction  
Furnace ILL

6) AMCO<sub>3</sub>F (A=Li, Na, K and  
M=Ca, Mn) for  
energy storage  
application  
Furnace FT

7) In situ on SOFC anode  
materials  
Furnace FT

8) 2015 0654 ID (1 d)  
Cryofurnace

9) (Sheptyakov)  
Magnetic sensing and  
separation of oxygen in  
a Mn(II) single-chain  
porous metal-organic  
framework  
Cryofurnace

10) in BaCuSi<sub>2</sub>O<sub>6</sub> at  
low temperatures  
ORI4

SINQ

- 1) New HRF I High pressure cell  
down tuning  
ORI4
- 2) 2014 1681 (1 d)  
(Sheptyakov)  
Impact of the layer-preferential  
Ti for Fe substitution  
on magnetic order  
of phyrrotite-like  
 $(Fe_{1-x}Ti_x)7Se_8$
- 3) hysteresis in the frustrated  
magnets  $LiA'Cr_4O_8$  ( $A' = Ga, In$ )  
ORI4
- 4) Interplay between structure  
and superconductivity  
in ammonia and alkali  
intercalated  
 $(NH_3)_yM_xFeSe$   
ORI4
- 5) Low temperature  
crystal structure  
of  $SrDy_2O_4$  frustrated  
magnet

down towards Sodium-based  
Energy Storage  
Cryofurnace

2) Internal  
ORI4

3) ORI4

4) Mg(Fe,Co,Ni)2d3 Synthesised  
at Superhigh H<sub>2</sub> Pressures:  
ORI4

5) Peculiar lattice softening  
and variable spin  
order in the frustrated  
magnet BiMn<sub>2</sub>PO<sub>6</sub>  
Furnace FT

6) (Sheptyakov)  
Pressure evolution of  
the magnetic and crystallographic  
structures of CrAs  
ORI4/P15

7) (Sheptyakov)  
Pressure evolution of  
the magnetic and crystallographic  
structures of CrAs  
ORI4/P15

8) (Pomjakushin)  
cation ordering in lithium  
layered oxides  
 $\text{LiNi}_{1-x-y}\text{Mn}_x\text{Co}_y\text{O}_2$

9) different oxidation  
states

INQ 1) Structural investigation of Cr-substituted NCM oxides  
 own 2) In situ analysis of the different crystallographic orders present in ternary Heusler Fe<sub>2</sub>VAl and Ni<sub>2</sub>MnSn compounds as a function of temperature  
 Furnace II L

(Pomjakushin)	
High pressure study of (8)	
SINQ down	1)(Pomjakushin) Spin structure of layered perovskite chromium oxides ORI4
	2)2015 0815 (1 d) (Pomjakushin) magnetic ground state of the gigantic magnetoelectric akermanite Ca <sub>2</sub> CoSi <sub>2</sub> O <sub>7</sub> ORI4
	3)Y <sub>2</sub> Mn <sub>2</sub> O <sub>7</sub> ORI4
	4)(Pomjakushin) Temperature and doping dependence of the magnetic structure of Ca <sub>2</sub> Fe(2-x)Al <sub>x</sub> O <sub>5</sub> multiferroic compound ORI4
	5)PbBaFeMnO <sub>5</sub> , PbBaFeCoO <sub>5</sub> and PbSrFe1.25Cr0.75O <sub>5</sub>
	6)Frontzek) local structural disorder of selected refractory high-entropy alloys and high-concentration binary alloys
	7)DIL Variox/Dil
	8)structure and helimagnetism in the Skyrmiон lattice compound Cu <sub>2</sub> OSeO <sub>3</sub> PE/CCR1
*SINQ 1)tests of strobo with new soft down for CB from Urs	
2)ion diffusion path of Li-excess olivine Furnace FT	
3)Controlling transition metal positioning in magnetic spinels	
4)between the entropy evolution and Li ordering during (de)lithiation of Ni-rich NCM cathodes by in-situ neutron diffraction measurements	
5)(Sheptyakov) Investigations on the cycling of Li+ in lithium iron diphosphonates, a new class of positive electrode materials for Li-ion batteries	
6)2015 0698 (1 d) (Sheptyakov) Guanidine	
7)ReBaFeCuO <sub>5</sub> , Re=absorbing elements: Gd,Sm,Eu but nonabsorbing isotopes	
8)Cryofurnace	

- SINQ 1) metal borohydrides  
down insight in the di-hydrogen bonds  
ORI4
- 2) Sheptyakov)  
New Itsch5  
ORI4
- 3) cation-stuffing and  
oxygen defects of  
pyrochlore iridates R<sub>2</sub>Ir<sub>2</sub>O<sub>7</sub>  
ORI4
- 4) (Sheptyakov)  
Tests with stroboscopic battery  
recharging
- 5) Li-excess olivine  
Furnace FT

### Special events: