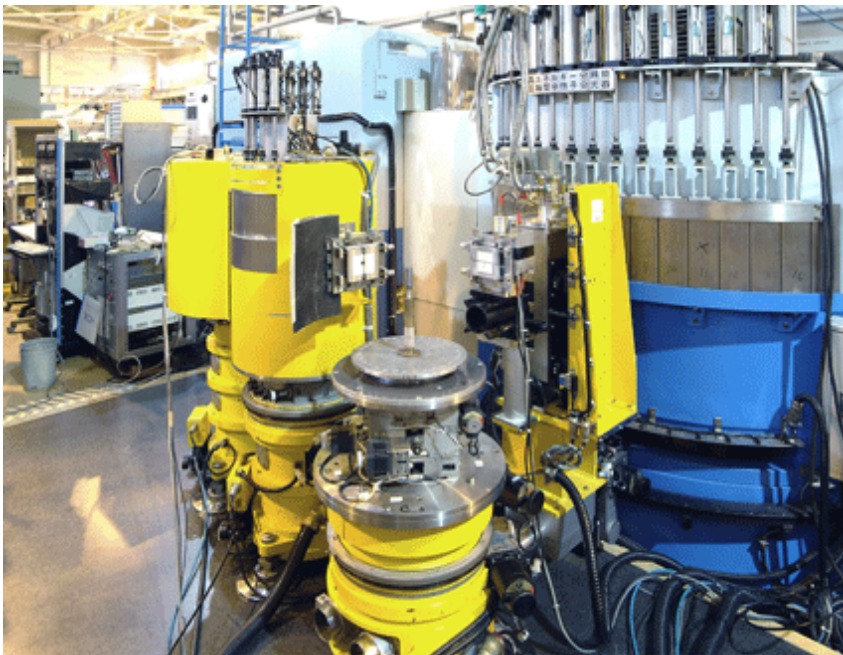


# Cold neutron triple-axis spectrometer, HER

## Research topics

Frustrated magnetism, Low-dimensional magnet, Heavy Fermion, Fe-based SC, Acoustic phonon, etc.



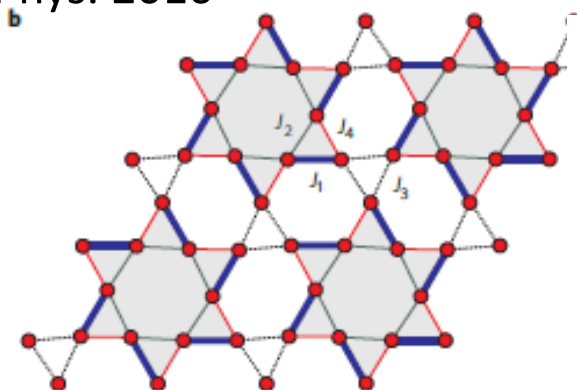
## Specification

- Monochromator  
PG002 vertical focusing、 120 mm(H) x 70 mm(V)  
 $2.2\text{meV} < E_i < 12\text{meV}$
- Collimator  
1<sup>st</sup>:  $3q_c$  supermirror guide    2<sup>nd</sup>: 10', 20', Open  
3<sup>rd</sup>: 20', 40', 80', 3 Radial Colls for HFA    4<sup>th</sup>: 20', 40', 80'
- Filter  
Automatically switched Be /PG filter
- Analyzer  
PG002 vertical and horizontal focusing
- Beam size  
25mm(H)x40mm(V)

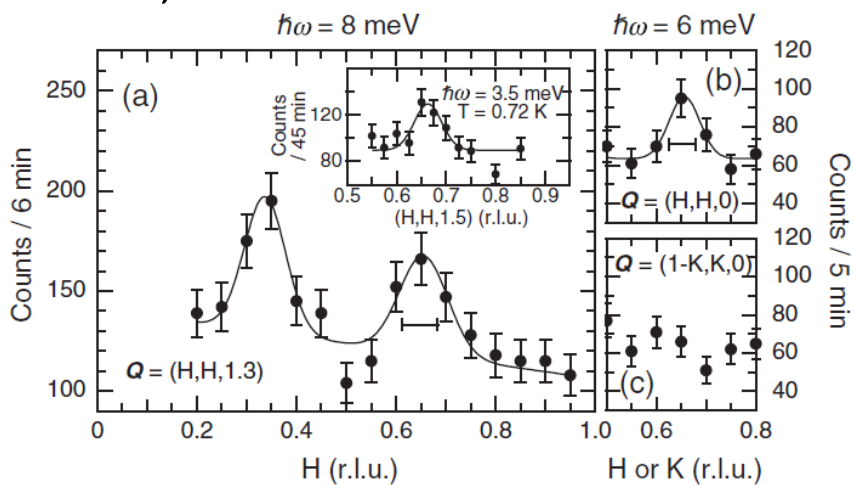
# Research topics in HER before shutdown

Frustrated magnetism, Low-dimensional magnet, Heavy Fermion, Fe-based SC, Acoustic phonon, etc.

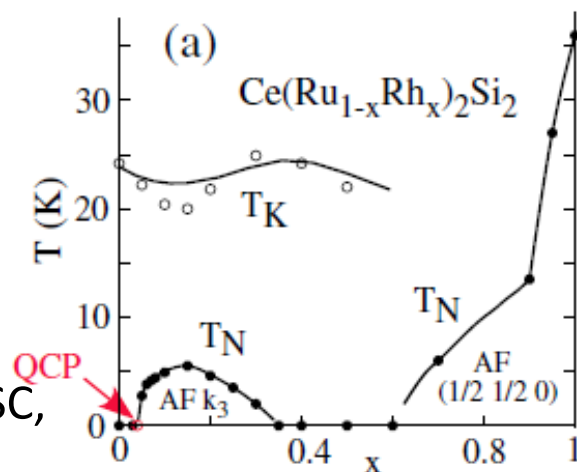
Pinwheel VBS, K. Matan, Nat. Phys. 2010



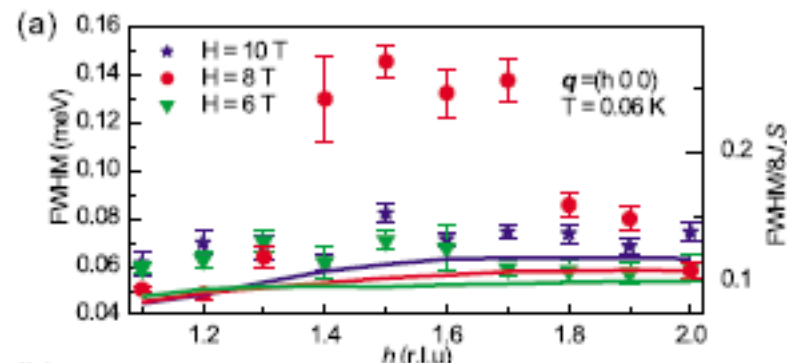
Spin fluctuation in Fe-based SC, C.H. Lee, PRL 2011



QCP in heavy fermion, H. Kadowaki, PRL 2006



Instability of magnon in 2D AFM, T. Masuda, PRB 2010



Dynamical spin molecule in spinel, Tomiyasu, PRL 2008

