

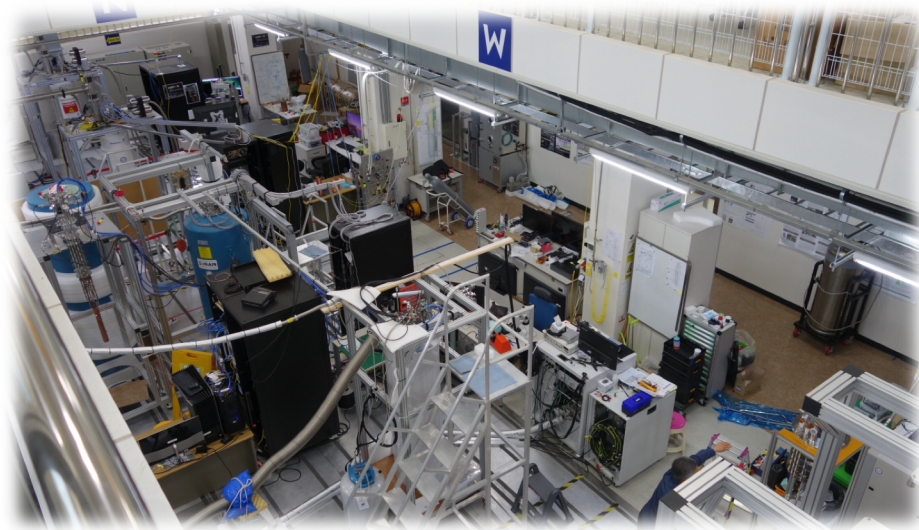


# Axion Dark Matter Search at IBS/CAPP



## Center for Axion and Precision Physics Research (CAPP)

- Established in Oct. 2013
- **Completion of infrastructure**
  - 7 low vibration pads for parallel experiments
  - Several refrigerators and SC magnets
- **Constructing experiments**
  - Accomplished all technical challenges
    - Described in numerous publications in literature
  - Three experiments in DAQ mode in 2019



**Operating several experiments targeting different axion mass ranges in parallel.**

Refrigerator			Magnet			Experiment
Manufacturer	Model	$T_B$ [mK]	Manufacturer	$B_{max}$ [T]	Bore [mm]	Name
BlueFors (BF3)	LD400	10				
BlueFors (BF4)	LD400	10				
Janis	HE-3-SSV	300	Cryo Magnetics	9	125	CAPP-9T MC
BlueFors (BF5)	LD400	10	AMI	8	125	CAPP-8T (PACE)
BlueFors (BF6)	LD400	10	AMI	8	165	CAPP-8TB
Oxford	Kelvinox*	30	SuNAM	18	70	CAPP-18T
Leiden	DRS1000	100	Oxford	12	320	CAPP-12TB
Oxford Instr.	Kelvinox	30	BNL Magnet Div.	25	100	CAPP-25T

\* The Kelvinox refrigerator will be reused for CAPP-25T