

Division of Mathematical and Physical Sciences	Research field	Plasma Physics	Lab. ID MP09
Laboratory web site	http://www.s.kanazawa-u.ac.jp/phys/plasma/		
Research subjects			
<p>(1) CALM2 experiment: In the electron beam-plasma system, the beam mode and plasma wave appear. The nonlinearities of the waves are investigated. (2) CUSP experiment: Particle accelerations along magnetic field line are sometimes observed in the Polar Cusp. On the other hand, electric potential will be produced by plasma in cusp field, and considered to contribute to the phenomena. Those are investigated in an experiment. (3) "Poly-Phase AC Discharge", This type of discharge has unique properties, which is not observed in usual two phase AC discharge. Instead of many applications, the basic properties of discharge are not well investigated.</p>			
Master/Doctor course: Education policy, curriculum, typical activity in the laboratory			
Usually the CALM2 experiment and researches on Poly-Phase AC Discharge are run. The CUSP experiments are conducted once or twice a year with a collaboration with JAXA.			
Daily life in the laboratory, etc.			
Students enjoy their campus life, and also their research life. We make efforts as it can be achieved.			
Message or comments by the laboratory faculty staffs			
A lot of law of plasma physics are empirical. Experimental challenges are important.			
Recent Master theses in these 3 years (+ more if appropriate)			
year.month	Thesis title (including English translation of Japanese thesis title)		
2017.3	Propagation of electron beam in plasma, and the injection to cusp field.		
2017.3	Plasma production by the electron beam injection into a cusp magnetic field, and evaluation by the orbital calculation of the single particle.		
2016.3	Cusp plasma production by an electron beam injection		
2014.3	Electron emission from tungsten filament, and plasma production.		
2013.3	Observation of beam instabilities in the electron beam - plasma system.		
Recent Doctoral theses in these 3 years (+ more if appropriate)			
year.month	Thesis title (including English translation of Japanese thesis title)		
Laboratory mail address	Ritoku ANDO <andphys6 *at* staff.kanazawa-u.ac.jp>		