

Course Number	06007
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2006 「The International Priority Graduate Programs (PGP)」

~Advanced Graduate Courses for International Students~

【1. Profile of the University】

①University Department	University of Tokyo, Department of Physics		
②President	Hiroshi Komiyama		
③Address (Headquarters)	〒113-8654 Hongo 7-3-1, Bunkyo-ku, Tokyo		
④Contact	Division	International Liaison Office, Graduate School of Science	
	Contactperson's Name	Emiko Gosho	e-mail ilo@adm.s.u-tokyo.ac.jp
	TEL/FAX Number	Phone: +81-3-5841-7630 FAX: +81-3-5841-8775	
⑤Web-Address	<a href="http://www.s.u-tokyo.ac.jp/MEXTspecialprogram/">http://www.s.u-tokyo.ac.jp/MEXTspecialprogram/</a>		
⑥Enrollment (only GraduateSchool)	1988 (include MEXT's Scholarship Students: 795 )		

【2. Outline of the Course】

①Course	Ph.D. Program at Frontier Physics Research Centers
②Degree	Ph.D. (Science) ( 3 years )
③Graduate Course, Department	Graduate School of Science, Department of Physics
	(Address) 7-3-1 Hongo, Bunkyo-ku, Tokyo, 113-0033
④Collaboration (Universities, Graduate courses, Departments)	
⑤Quota	8 (include MEXT's Scholarship Students: 5 ) (include Japanese Students : 0 )
⑥Faculties	145 (Full-time(only for this course):81 Full-time(at the department offering this course):49 Parttime: 15 )
⑦Representative of the Course	Job Title Professor, Graduate School of Science
	Name Yasuhiro Iwasawa

### 【3. Contents of the Course】

#### Purpose of the program

The graduate course of physics is promoting research and education of physics at the world highest level, which consists of the department of physics as its core institution and other institutes such as the Institute of Cosmic Ray Research (ICRR), the Institute of Solid State Physics (ISSP), the International Center for Elementary Particle Physics (ICEPP), etc. The department of physics is proud of being the oldest organization for research and education of physics in Japan. The high activity of our graduate course appears evidently in the fact that the staff members of the University of Tokyo have gained the world second highest citations in physics for the papers published in the past eleven years (1994-2004) (See Fig. 1 based on the data provided by ISI-Essential Science Indicators. The citation was the world highest for the years 1993-2003. The Japanese university which achieved the next highest citations after the University of Tokyo is only the thirteenth in the world ranking.) Many excellent physicists are among the graduates, including Nobel prize Laureates such as Leo Ezaki and Masatoshi Koshiba.

In this program, we accept up to five new excellent students from outside Japan every year. Those students are requested to have master degrees. They are supported as Japanese Government (Monbukagasho:MEXT) scholarship students, and will be conducted and trained to be independent and productive physicists with Ph.D., by utilizing the prominent research environments of our graduate course.

Fig. 1 Top 10 institutions with high citations in physics

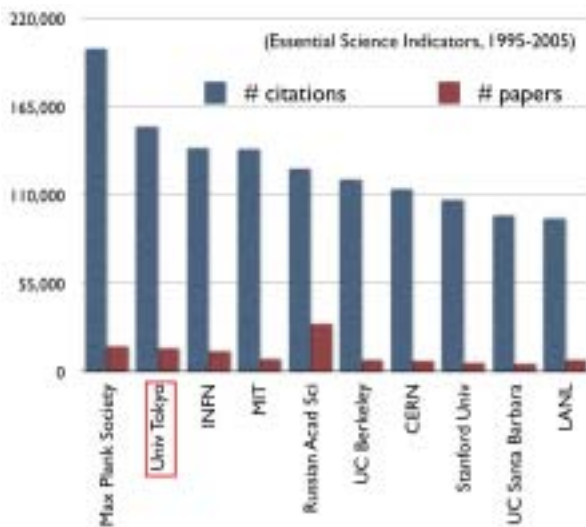
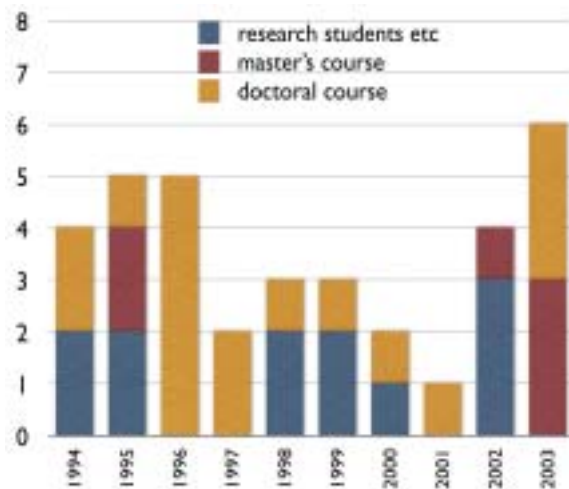


Fig. 2 Number of international students in the University of Tokyo



#### Characteristics of the graduate course

The major advantage of this graduate course is a strong group of the professors of particle physics, nuclear physics, solid-state physics, biophysics, astrophysics, etc. There are more than 130 full-time professors and about 15 part-time professors. Making use of high potentiality as the research institution, our graduate course produces 46 Ph.D. and 106 masters every year in average of the past ten years.

#### Educational and Support Systems (See Fig. 3)

Applicants are supposed to have master degrees, and for most of them, objectives of their researches will be definite and their thesis advisers will be determined before they come. Upon the inquiry form applicants, however, we are pleased to assign adequate advisers.

After admission, the thesis subject will be fixed as early as possible, with ample discussions between the student and his/her adviser. The adviser provides the student with efficient guidance regularly as a part of daily research activity, while seminars and meetings of adviser's group will be held in English. All lectures where at least an international student is present will be delivered in English.

In the Graduate School of Science, the International Liaison Office (**ILO**) comprised of three staff members has been operational for 12 years. This office helps international students, literally from their arrival till departure, regarding the admission process, orientations, various advising and counseling on from study to daily life, housing, required legal processes, etc. In addition, classes for Japanese language are organized two hours/week for three different levels, and exchange opportunities will be held with Japanese students, professors and staff members.

A Japanese student in the same group will be assigned as a tutor for each international student, so that this international student can get accustomed, more easily, to Japanese way of life and education. The ILO keeps regular contact with the tutor, providing with assistance if necessary. The international student committee of the Department of Physics will be of help for the student regarding matters on his/her research.

### Ph.D. review committee

The review committee consists of five or more members, but does not include the thesis adviser or co-authors of published papers. This is based on the idea of peer review adopted in research journals, so as to guarantee the highest fairness and objectivity. This unique system is made possible by the large number of professors, about 130.

### Further Information

Various information can be obtained from the web site (English version) of the Department of Physics (<http://www.phys.s.u-tokyo.ac.jp>) and that of the Graduate School of Science (<http://www.s.u-tokyo.ac.jp>). Details of this program for the international students will be posted as well as a list of professors who can be advisers.

Fig. 3 An overview of our Ph. D. program for International Students.

