

Academic Year 2018

International Physics Course

Syllabus (Seminars)

April 1st, 2018

Osaka University, Graduate School of Science

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1 Master Course

(IPC)Semestral Seminar III(Physics)

Course Code	24P321
Course Number	24PHYS5F300
Credits	4
Instructor	IDEGUCHI Eiji Office:
Office Hours	
Eligibility	required
Schedule	Fall and Winter Term Period: Other
Room	その他
Type of Class	Others
Course Objective	The goal of seminar is to prepare the master thesis. Students will do researches on experimental nuclear physics.
Learning Goals	Students will acquire basic knowledge and find most advanced topics in experimental nuclear physics to complete the master thesis.
Requirements, Prerequisites	Weekly presentation on the progress of research is required.
Special Note	
Class Plan	1. Orientation 2-14. Group discussion on the topic chosen by students 15. Final presentation on the research
Independent Study Outside of Class	Every week students will prepare for the weekly presentation. Reading papers/text books to understand the research will also be done.
Textbooks	
References	
Grading Policy	Final presentation 30%, weekly presentation 60%, discussions/questions in each class 10%
Other Remarks	

(IPC)Semestral Seminar IV(Physics)

Course Code	24P322
Course Number	24PHYS5F300
Credits	4
Instructor	IDEGUCHI Eiji Office:
Office Hours	
Eligibility	required
Schedule	Spring and Summer Term Period: Other
Room	その他
Type of Class	Others
Course Objective	The goal of seminar is to prepare the master thesis. Students will do researches on experimental nuclear physics.
Learning Goals	Students will acquire basic knowledge and find most advanced topics in experimental nuclear physics to complete the master thesis.
Requirements, Prerequisites	Weekly presentation on the progress of research is required.
Special Note	
Class Plan	1. Orientation 2-14. Group discussion on the topic chosen by students 15. Final presentation on the research
Independent Study Outside of Class	Every week students will prepare for the weekly presentation. Reading papers/text books to understand the research will also be done.
Textbooks	
References	
Grading Policy	Final presentation 30%, weekly presentation 60%, discussions/questions in each class 10%
Other Remarks	

1. Master Course

(IPC)Semestral Seminar II(Physics)

Course Code	24P328
Course Number	24PHYS5F300
Credits	4
Instructor	NOMACHI Masaharu Office:
Office Hours	
Eligibility	
Schedule	Spring and Summer Term Period: Other
Room	その他
Type of Class	
Course Objective	The goal of seminar is to prepare for the master thesis. In this seminar, the students take turns to give lectures based on textbooks or journal papers.
Learning Goals	Through the seminar, they acquire basic knowledge and find most advanced topics in particle physics for the master thesis.
Requirements, Prerequisites	
Special Note	
Class Plan	1. Orientation 2-14. Group discussion on the topic chosen by students 15. Final presentation on the research
Independent Study Outside of Class	At least 4 hours of work per week is need to read reference papers and making theoretical calculations to prepare and review the seminars.
Textbooks	
References	
Grading Policy	Final presentation 30%, weekly presentation 60%, discussions or questions in each class 10%
Other Remarks	

(IPC)Semestral Seminar III(Physics)

Course Code	24P329
Course Number	24PHYS5F300
Credits	4
Instructor	NOMACHI Masaharu Office:
Office Hours	
Eligibility	
Schedule	Fall and Winter Term Period: Other
Room	その他
Type of Class	
Course Objective	The goal of seminar is to prepare for the master thesis. In this seminar, the students take turns to give lectures based on textbooks or journal papers.
Learning Goals	Through the seminar, they acquire basic knowledge and find most advanced topics in particle physics for the master thesis.
Requirements, Prerequisites	
Special Note	
Class Plan	1. Orientation 2-14. Group discussion on the topic chosen by students 15. Final presentation on the research
Independent Study Outside of Class	At least 4 hours of work per week is need to read reference papers and making theoretical calculations to prepare and review the seminars.
Textbooks	
References	
Grading Policy	Final presentation 30%, weekly presentation 60%, discussions or questions in each class 10%
Other Remarks	

2. Doctor Course

2 Doctor Course

(IPC)Seminar for Advanced Researches(For Students Enrolled Fall) (Physics)

Course Code	24P363
Course Number	24PHYS7F320
Credits	9
Instructor	TOYODA Michisato Office:
Office Hours	
Eligibility	
Schedule	Continue to the next academic year Period: Other
Room	その他
Type of Class	Seminar Subject
Course Objective	The goal of seminar is to prepare for the doctor thesis. In this seminar, the students take turns to give lectures based on textbooks or journal papers.
Learning Goals	Through the seminar, they acquire basic knowledge and find most advanced topics in mass spectrometry for the master thesis.
Requirements, Prerequisites	
Special Note	
Class Plan	1. Orientation 2-14. Group discussion on the topic chosen by students 15. Final presentation on the research
Independent Study Outside of Class	At least 4 hours of work per week is need to read reference papers
Textbooks	
References	
Grading Policy	Final presentation 30%, weekly presentation 60%, discussions or questions in each class 10%
Other Remarks	

2. Doctor Course

(IPC)Seminar for Advanced Researches(For Students Enrolled Fall) (Physics)

Course Code	24P364
Course Number	24PHYS7F320
Credits	9
Instructor	NOMACHI Masaharu Office:
Office Hours	
Eligibility	
Schedule	Continue to the next academic year Period: Other
Room	その他
Type of Class	
Course Objective	
Learning Goals	
Requirements, Prerequisites	
Special Note	
Class Plan	
Independent Study Outside of Class	
Textbooks	
References	
Grading Policy	
Other Remarks	

(IPC)Seminar for Advanced Researches(For Students Enrolled Fall) (Physics)

Course Code	24P365
Course Number	24PHYS7F320
Credits	9
Instructor	FUJIOKA Shinsuke Office:
Office Hours	
Eligibility	Doctor course student of Fujioka group of International Physics Course 1,2,3 Required
Schedule	Continue to the next academic year Period: Other
Room	その他
Type of Class	Others
Course Objective	To understand physics of high energy density matter produced by high power laser irradiation.
Learning Goals	To be able to conduct high energy density physics research through discussions with colleagues and by studying text books and journal papers. To be able to present and publish your research results in international conferences and journals.
Requirements, Prerequisites	
Special Note	
Class Plan	We will announce routinely you topics, date, and room of the seminar.
Independent Study Outside of Class	P. Drake, High Energy Density Physics (http://www.springer.com/us/book/9783540293149) S. Atzeni and J. Meyer-Ter-Vehn, The Physics of Inertial Fusion (http://www.oupcanada.com/catalog/9780199568017.html)
Textbooks	
References	
Grading Policy	We evaluate you base on achievements (conference presentation, journal papers, and patent) with consideration of quality of your presentations and discussions in the seminar.
Other Remarks	

(IPC)Seminar for Advanced Researches(For Students Enrolled Fall) (Physics)

Course Code	24P318
Course Number	24PHYS7F320
Credits	9
Instructor	TAJIMA Setsuko Office:
Office Hours	Anytime
Eligibility	IPC doctor course students Each Year required
Schedule	Continue to the next academic year Period: Other
Room	その他
Type of Class	Others
Course Objective	This is a seminar for preparation of a doctor thesis.
Learning Goals	To study a frontier science, to master experimental and analysis skills, to be able to search for relevant researches published in scientific journals, to be able to write scientific papers in English and to make oral presentations in English.
Requirements, Prerequisites	Having a master degree
Special Note	Students are required to carry out experimental researches and to join seminars for studying the published works.
Class Plan	Each student is required to make a research plan by himself.
Independent Study Outside of Class	To participate domestic and international conferences and to give presentations at these conferences.
Textbooks	Nothing special
References	Nothing special
Grading Policy	Evaluation will be made totally on a basis of research results, attitudes and presentation at conferences or in scientific journals.
Other Remarks	

(IPC)Seminar for Advanced Researches(For Students Enrolled Fall) (Physics)

Course Code	24P341
Course Number	24PHYS7F320
Credits	9
Instructor	KIMURA Shin-ichi Office:
Office Hours	Anytime
Eligibility	IPC doctor course students Each Year required
Schedule	Continue to the next academic year Period: Other
Room	その他
Type of Class	Experimental Subject
Course Objective	This is a seminar for preparation of a doctor thesis.
Learning Goals	To study a frontier science, to master experimental and analysis skills, to be able to search for relevant researches published in scientific journals, to be able to write scientific papers in English and to make oral presentations in English.
Requirements, Prerequisites	Having a master degree
Special Note	Students are required to carry out experimental researches and to join seminars for studying the published works.
Class Plan	Each student is required to make a research plan by himself/herself.
Independent Study Outside of Class	To participate domestic and international conferences and to give presentations at these conferences.
Textbooks	Nothing special
References	Nothing special
Grading Policy	Evaluation will be made totally on a basis of research results, attitudes and presentation at conferences or in scientific journals.
Other Remarks	

2. Doctor Course

(IPC)Seminar for Advanced Researches(For Students Enrolled Fall) (Physics)

Course Code	24P317
Course Number	24PHYS7F320
Credits	9
Instructor	HASHIMOTO Koji Office:
Office Hours	
Eligibility	
Schedule	Continue to the next academic year Period: Other
Room	その他
Type of Class	
Course Objective	The goal of seminar is to prepare for the doctor thesis. In this seminar, the students take turns to give lectures based on textbooks or journal papers.
Learning Goals	Through the seminar, they acquire basic knowledge and find most advanced topics in particle physics for the master thesis.
Requirements, Prerequisites	
Special Note	
Class Plan	1. Orientation 2-14. Group discussion on the topic chosen by students 15. Final presentation on the research
Independent Study Outside of Class	At least 4 hours of work per week is need to read reference papers and making theoretical calculations to prepare and review the seminars.
Textbooks	
References	
Grading Policy	Final presentation 30%, weekly presentation 60%, discussions or questions in each class 10%
Other Remarks	

(IPC)Seminar for Advanced Researches(For Students Enrolled Fall) (Physics)

Course Code	24P345
Course Number	24PHYS7F320
Credits	9
Instructor	IDEGUCHI Eiji Office:
Office Hours	
Eligibility	IPC doctor course students Each year required
Schedule	Continue to the next academic year Period: Other
Room	その他
Type of Class	Others
Course Objective	The goal of this seminar is to prepare the doctor thesis.
Learning Goals	To acquire basic knowledge and find most advanced topics in experimental nuclear physics to complete the doctor thesis.
Requirements, Prerequisites	Weekly presentation on the progress of research is required.
Special Note	
Class Plan	1. Orientation 2-14. Group discussion on the topic chosen by students 15. Final presentation on the research
Independent Study Outside of Class	Every week students will prepare for the weekly presentation. Reading papers/text books to understand the research will also be done.
Textbooks	
References	
Grading Policy	Evaluation will be made totally on a basis of research results, attitudes and presentation at conferences or in scientific journals.
Other Remarks	

2. Doctor Course

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