

Subject (English)	Solid State Spectroscopy		Semester	Fall	Day/Slot	Thu. / 2 <sup>nd</sup> 10:30-12:00		
科目名 (日本語)	固体分光学							
Course Code	VJ216F42	Course Numbering	SPH-PHY817E		Period	Oct. 4, 2018 - Jan. 24, 2019		
Instructor (Post)	Go Yusa (Assoc. Prof.)				Campus	Aobayama		
					Building	<a href="#">Science Complex B [H-03]</a>		
Faculty	Faculty of Science		Credits	2	Class Room	745		
Class subject	Solid State Spectroscopy							
Object and summary of class								
Solid State Spectroscopy								
Keywords	Spectroscopy, optics, solid state physics							
Goal of study								
The goal of this program is to familiarize students with the various methods of optical spectroscopy of solids and physical concepts developed through theories and experiments.								
Contents and progress schedule of class								
<p>The topics below will be discussed in the program.</p> <ul style="list-style-type: none"> <li>● Interaction between matter and radiation</li> <li>● Electromagnetic response and optical constants</li> <li>● Optical response of semiconductors, insulators and metals</li> <li>● Excitons</li> <li>● Lattice vibrations</li> <li>● Conventional spectroscopy methods</li> <li>● Laser and laser spectroscopy methods</li> </ul>								
Schedule								
No.	1	2	3	4	5	6	7	8
Date	10/4	10/11	10/18	10/25	11/1	11/8	11/15	11/22
No.	9	10	11	12	13	14	15	
Date	11/29	12/6	12/13	12/20	1/10, '19	1/17	1/24	
Preparation	-							
Record and evaluation method	-							
Textbook and references	-							
Self study	-							
In addition	-							