

Division of Mechanical Science and Engineering	Research field	Quantum informatiopn theory	Lab. ID EC42
Laboratory web site			
Research subjects			
<p>Quantum information processing, which has been attracting increasing attention recently, is considered to have several advantages over conventional classical information processing. On the other hand, quantum information realized by current technology is susceptible to noise, and it is an important issue to consider the effect of noise on quantum information processing. From the viewpoint of theoretical statistics, quantum statistics can be regarded as a noncommutative extension of classical statistics, and the uncertainty principle and other principles of quantum mechanics are derived from noncommutativity. In this laboratory, we aim to understand the essence of quantum information through theory and simulation, and to understand what can be done and what cannot be done.</p>			
Master/Doctor course: Education policy, curriculum, typical activity in the laboratory			
<p>Quantum information theory has many unsolved problems, and we will work to resolve them.</p>			
Daily life in the laboratory, etc.			
<p>There is no master/doctor course student at this moment.</p>			
Message or comments by the laboratory faculty staffs			
<p>Since this is a newly established laboratory, there is nothing here yet, but we would like to enhance it little by little.</p>			
Recent Master theses in these 3 years (+ more if appropriate)			
year.month	Thesis title (including English translation of Japanese thesis title)		
Recent Doctoral theses in these 3 years (+ more if appropriate)			
year.month	Thesis title (including English translation of Japanese thesis title)		
Laboratory mail address			