Division of Mathematical and Physical	Research	Theoretical and Computational Nanoscience	Lab. ID
Sciences	field	~	MP20
Laboratory web site	http://cphys	s.s.kanazawa-u.ac.jp/_oda-web/index-eng.html	
Research subjects			
Recent topics on "Theoretical and Computational Nanoscience (Computational science in several fields of physics)": Surface/interface physics, nanosicence, magnetic properties of materials, crystal growth, theoretical material physics, computational solid state physics, electron correlation, etc. We may use first-principles electronic structure calculation and first-principles molecular dynamics, classical moleculardynamics, Monte Carlo method, etc. By using computers, we aim the analysis/understanding/prediction/design/modeling on the nature phenomena or new materials/devices. We may use (massively) parallel computers and supercomputers. We may also develop methods or implement program codes for simulation based on solid state physics, if need for investigation. We are also interested in electronic structures of metals, semiconductors, magnets, molecules, and clusters including interstellar ones.			
book reading, etc). Conduct research of each research topics and complete master's theses. Doctoral students conduct research under supervisors and complete doctoral theses. Regardless of the degree (master or doctor), the students are strongly recommended to present the results of research in the related conference/workshop and also to publish them in an academic journal. The students are also recommended to contribute an administrative works on the computer/network system.			
Daily life in the laboratory, etc.			
PC is assigned to each student. Stude scale numerical simulation. Students a	nts can use s re recommde	supercomputers in other universities and thus can ed to use/apply massively parallel computers(supe	γ out large− rcomputers).
Message or comments by the laboratory faculty staffs			
Computational science is the third science students conduct reserch of this new science of nano-meter scale has a reg due to the properties of nano-scale. F functionality in an application material. never been considered before in the w study on computational nanoscience w	ence in additi science with gion consistin or examples, Due to the r vorld, or creat vith us using	ion to expeimental and theoretical sciences. We had special interests. We believe that the nanoscience of of unknow targets and one can conduct an inter one can find a new property in the material, creat new field of nanoscience, you may find a new cond t a new system which has been never made so far the state-of-the-art in computing.	ope that which is a resting study a new cept which has Challenge a

Laboratory mail address

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