

Project Title:

ac-driven quantum dots

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The purpose of the project is to examine electron spin resonance effects in double quantum dots systems driven by microwaves. A general open-system theoretical approach is used to model the quantum dots. The simulations will provide feedback to experimental data which have been obtained by experimentalists at RIKEN. So far no job was executed for two basic reasons: (1) I spent several months in a European institute, (2) I needed to run only a few test jobs; a rather simple task that I managed to perform on a desktop. The project is under progress and in the near future I may need to make use of the supercomputer. Research publications will be prepared this year.