

Name: Akihiro SHIMOMURA

Research field: Functional analysis/Real analysis

Key words: Analysis, Functional analysis, Theory of evolution equations

Current research interests:

My research interests involve the following:

- the theory of (linear and nonlinear) evolution equations,
- partial differential equations, especially, those which describe the time evolution of classical fields,
- the time evolution of quantum fields.

To study these, I am interested in using functional analysis, Fourier analysis, the operator theory and the semi-group theory of linear operators. I also studied spectrum of some partial differential operators by using the spectral theory.

Notice for students:

Students who are planning to apply to my lab are expected to have a good Japanese proficiency.