

Project Title:

Exploring the physics of nuclear matter and ultra-cold gases

Name: Pascal Naidon

Laboratory: Quantum Hadron Physics Laboratory, Theoretical Research Division,
RIKEN Nishina Center for Accelerator-Based Science, RIKEN Wako Institute

My project theoretically investigates the physics of nuclear matter and ultra-cold gases at the few-body and many-body level, in situations where Efimov physics play an important role.

This year I focused on calculating the so-called “Efimov three-body parameter”. Though numerically demanding, it turns out I was able to calculate it on a regular PC.

However, I may need to use RICC resources next year for more complex problems to come.