1. Scope

This summer school aims to gather researchers and students to enhance active discussions on current topics related to quantum effects and quantum information in semiconductor and superconductor structures.

2. Date and Venue

Date: 4–6th September, 2018
Venue: Hotel Sunvalley Nasu, Annex building, Hisho-no-ma
URL: http://www.nasu3800.co.jp/
Address: 203 Yumoto, Nasu-machi, Nasu-gun, Tochigi Prefecture
Tel: 0287-76-3800
8TH SPIN CAMP

8. PROGRAM

September 4, 2018 (Tuesday)

13:00-13:10 Opening: Yoshiro Hirayama (Tohoku Univ.)

Chair: Yoshiro Hirayama (Tohoku Univ.)

13:10-14:00 Scanning gate imaging in quantum Hall systems
(Invited) Katsushi Hashimoto (Tohoku Univ.)

14:00-14:20 Majorana Kramers pairs in higher-order topological insulators
Chen-Hsuan Hsu (RIKEN)

14:20-14:40 Energy dependence of e-e scattering on quantum Hall edge channels
Syunya Akiyama (Tokyo Tech.)

14:40-15:00 Refreshment Break

Chair: Tomohiro Otsuka (Tohoku Univ.)

15:00-15:20 Phase transitions in quantum annealing on a qudit system
Yuya Seki (AIST)

15:20-15:40 Theory of g-factor in quantum dots
Peter Stano (RIKEN)

15:40-16:00 A quantum interface between different spin qubit encodings
Akito Noiri (RIKEN)

16:00-16:20 Refreshment Break