Theme :

Quantum rectification effects in low-symmetry systems *Purpose :* 

Demonstration and elucidation of nontrivial rectification effects which cannot be achieved within the framework of classical physics.

Achievement:

- 1. Discovery of spinon spin currents in a one-dimensional quantum spin liquid
- 2. Demonstration of magnon-pair correlation by means of spin-dependent transport measurement
- 3. Direct demonstration of charge-to-spin conversion in a chiral metal

