Symposium Frustrated Quantum Systems (SYFQ)

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The field of quantum magnetism originates in Werner Heisenberg's seminal contribution "Zur Theorie des Ferromagnetismus" in Zeitschrift für Physik 49, 619-636 (1928). Theoretical investigations of frustrated lattice by Phil W. Anderson in the 1970s opened an increasingly active field, that became even more popular after quantum spin liquids could be realized experimentally. Recent advances and novel methods in theory and in experiment lead to totally new aspects in the field of frustrated quantum magnetism. Through the targeted variation of geometry and interactions, the parameter space can be systematically explored, in order to check theoretical predictions. Research on artificial quantum systems and natural solids are mutually beneficial.

Overview of Invited Talks and Sessions

(Lecture hall ZHG008)

Invited Talks

SYFQ 1.1	Wed	10:45–11:25	ZHG008	**Detection of anyon braiding through pump-probe spectroscopy** — •Nandini Trivedi
SYFQ 1.2	Wed	11:25–12:05	ZHG008	**Fate of quantum spin liquid in 2D** — •Alexander A. Tsirlin
SYFQ 1.3	Wed	12:05–12:45	ZHG008	**Quantum disorder and quantum critical states in organic systems with triangular lattices** — •Kazushi Kanoda

Sessions

SYFQ 1.1–1.3	Wed	10:45–12:45	ZHG008	**Frustrated Quantum Systems**