

- Date & Time : **Monday 23rd MAR. 2026 16:00-17:30**
- Venue : Okochi Hall



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“Applications of generalized symmetry
for confinement physics ”

Quantum chromodynamics (QCD) gives the fundamental theory for nuclear and hadron physics. This theory is strongly coupled at low energies and enjoys a lot of nontrivial phenomena, such as the quark confinement and chiral symmetry breaking. Recent developments of generalized symmetry provide a renewed insight for the formal aspect of confinement physics, and I would like to give an overview for some of the applications to QCD physics. In particular, by putting QCD in a suitable twisted box, one can explicitly see the interrelation between the gauge-field topology, monopoles and center vortices, and their roles for the dressing of the chiral solitons by topological ordered states.