



# “Relating quantum chromodynamics and hadron physics: confinement, strangeness, and exotic hadrons”

**by Nodoka Yamanaka (RIKEN / Tohoku University)**

**Time and Date: 15:00-17:00, May 8, 2025**

**Place: Room 745, Science Complex B (H-03) (hybrid)**

Registration: "[https://us02web.zoom.us/meeting/register/ehjLY\\_JNRiCDDdyFKHQi0g](https://us02web.zoom.us/meeting/register/ehjLY_JNRiCDDdyFKHQi0g)"

Quantum chromodynamics (QCD) is believed to be the fundamental theory of strong interaction and hadron physics, but the analytical derivation is still an open question. In this talk, we first present the difficulty of analyzing nonperturbative effects of nonabelian gauge theory by focusing on the color confinement and the quark model. We then review the importance of experimentally investigating the strangeness hadron and nuclear physics, as well as the exotic hadrons to understand the nonperturbative physics of QCD.

Contact : Kazuhiro Watanabe (kazuhiro.watanabe.b8 [at] tohoku.ac.jp)