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Recent progress on in-medium heavy flavor physics from lattice QCD

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Heavy quarks and heavy-flavor mesons are essential probes to investigate quark-gluon plasma produced in ultra-relativistic heavy ion collisions. On the other hand, extracting spectral properties from lattice heavy-flavor correlation functions to understand dissociation patterns of the bound states and heavy quark transport is a challenging subject in lattice QCD. In this talk, recent progress in lattice studies on in-medium properties of heavy quarks as well as open and hidden heavy flavor are reviewed and discussed. In particular, different efforts of spectral reconstruction from lattice correlation functions are highlighted and corresponding results on dissociation of the heavy-flavor mesons and heavy quark transport coefficients are addressed.

Author: OHNO, Hiroshi (Center for Computational Sciences, University of Tsukuba)

Presenter: OHNO, Hiroshi (Center for Computational Sciences, University of Tsukuba)

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