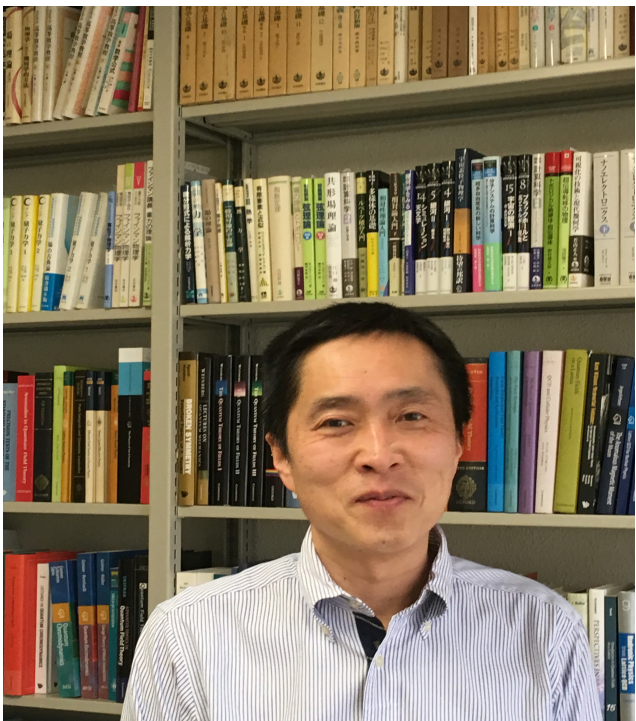# KMI Colloquium

Quark-hadron duality and lattice QCD

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KMI Science Symposia (ES635)

Abstract:

Quark-hadron duality is a basic assumption which many perturbative QCD calculations rely on. There are plausible arguments about why it is valid, but only at a qualitative level. We propose a set of quantities for which quantitative and non-perturbative calculation is possible using lattice QCD. A well-known example is related to the R-ratio of e+e- scattering. A primary target of the method discussed in this talk is the inclusive decays of B mesons. We discuss on how one can calculate its decay rate or some related quantities.

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