

Footprints of vector-like quark models

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Vector-like quarks (VLQs) are ubiquitous in many new physics models, such as grand unified theory, composite Higgs models, extra dimension theory, and so on. In minimal VLQ models, only seven types of representations can induce the mixing with standard model quarks. In non-minimal VLQ models, we can also introduce new scalar fields. The VLQ models can lead to rich phenomenology in electroweak precision observables, Higgs physics, flavour physics. In this talk, we will summarize our previous studies on the STU parameters, Higgs physics, and muon $g-2$ in the VLQ extended models.

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