XVIth Quark Confinement and the Hadron Spectrum



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Light scalar mesons in semileptonic decay of charm meson at BESIII

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The nontrivial quark structure of light scalar mesons f0(500), f0(980) and a0(980) remains controversial for many years. In passed years, BESIII has collected 8.0 and 7.33 fb⁻¹ of e+e- collision data samples at 3.773 and 4.178-4.226 GeV, respectively. In this talk, we will review all the studies about light scalar mesons via semileptonic D decays at BESIII. These studies includes the decays D0 -> a0(980)- e+nu, D+ -> a0(980)0 e+nu, Ds+ -> a0(980)0 e+nu, Ds+ -> f0(500) l+nu, D+ -> f0(980) e+nu, and Ds+ -> f0(500)/f0(980) e+nu. A short outlook would be given based on BESIII new data in the future.

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