

# Light scalar mesons in semileptonic decay of charm meson at BESIII

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The nontrivial quark structure of light scalar mesons  $f_0(500)$ ,  $f_0(980)$  and  $a_0(980)$  remains controversial for many years. In passed years, BESIII studied them via several semileptonic D decays ( $D^0 \rightarrow a_0(980)^- e^+ \nu$ ,  $D^+ \rightarrow a_0(980)^0 e^+ \nu$ ,  $D_s^+ \rightarrow a_0(980)^0 e^+ \nu$ ,  $D^+ \rightarrow f_0(500)/f_0(980) e^+ \nu$ ,  $D^+ \rightarrow f_0(500) \mu^+ \nu$ ,  $D_s^+ \rightarrow f_0(500)/f_0(980) e^+ \nu$ ). Especially, the measurement of  $D \rightarrow f_0/a_0$  form factor could shed light on the nature of them. In this talk, I will review all studies about light scalar mesons via semileptonic D decays at BESIII. A short outlook would be given based on BESIII new data in the future.

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