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Authors:	<a href="#">Chhatra, Priyadarshi</a>
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Abstract:	Rare decays of mesons are important tools to probe physics beyond the Standard Model (SM). A well-motivated hypothetical particle is the dark photon $A'$ . Dark photons are the electromagnetic force carrier in the dark matter. One may expect them to have weak coupling to the normal matter. $A'$ inherits a small coupling to the SM via kinetic mixing with the ordinary photon. It has been suggested that one can search for dark photon through rare charm meson decay $D \rightarrow DA'$ where $A' \rightarrow e^+e^-$ . Here, we are analysing the rare decay mode of $D^0$ meson where $D^0 \rightarrow D^0 e^+e^-$ .
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