

Ion Propulsion for Nanosatellites

Abstract:

Can tiny rockets revolutionize the next generation of spacecraft? Nanosatellites are a new type of spacecraft that have the potential to complete critical space missions at significantly lower costs compared to traditional large spacecraft. However, existing propulsion systems are difficult to scale to nanosatellite sizes, thus necessitating the development of new propulsion technologies. In this talk, Catherine will describe the physics of ion electropray thrusters, which are uniquely suited for nanosatellite applications. She will discuss how electropray ion beam is ueam ise ex1e2g6MDfe1 e eDf6)2TBs4ar) (44)ch2TBsaoDfe1 anDfe1 e e5)edi67.388