

# Electron observations from Venus Express

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Venus Express has provided the first on-orbit set of plasma measurements since the Pioneer Venus mission. These measurements are being used to study the Sun and solar-wind driven escape of the Venus atmosphere; the structure and dynamics of the ionosphere; and fundamental space plasma processes near Venus such as particle acceleration. Included in the Venus Express instrument suite is the first sensor dedicated to measurement of suprathermal electrons at Venus - ASPERA-4 ELS. In this presentation I will briefly summarize ongoing efforts to use data from the ELS sensor in conjunction with other Venus Express datasets to better understand the Venus plasma environment and its response to external drivers. This includes study of Venus plasma boundaries, mapping of Venus plasma regions, charged particle acceleration on the night side of Venus, and response of Venus to solar energetic particles.