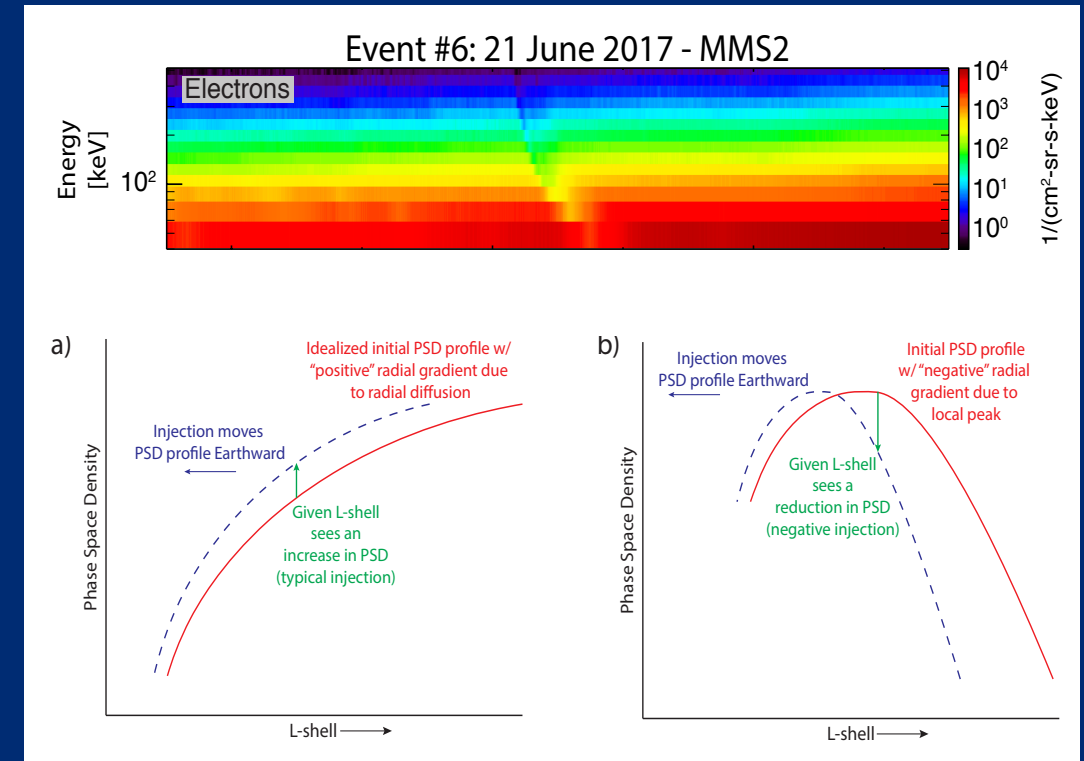


What are Negative Injections in the Earth's Magnetosphere?

- A new signature in the Earth's magnetosphere that exhibits the opposite behavior (less particles instead of more) to what we expect for typical "energetic particle injections"
- NASA's Magnetospheric Multiscale (MMS) mission provides a novel opportunity to test multiple hypotheses for how negative injections are generated
- Our research provides evidence that negative injections are caused by the same physical process, but are manifestations of different magnetospheric conditions



Unique negative injections signatures in energetic particle data are the result of the same magnetospheric phenomenon we've been studying for decades, but under different conditions.