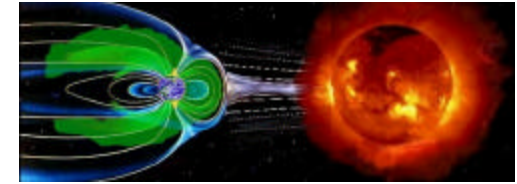
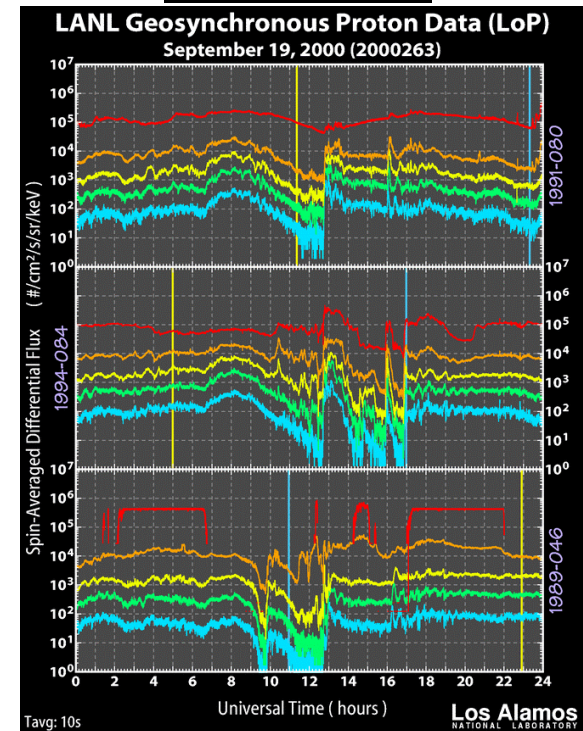
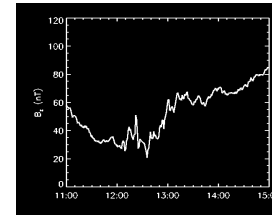


First IMAGE-ing of Particle Acceleration by Dynamic Magnetic Fields (HENA)



- Magnetic storm particle acceleration before IMAGE:
 - Tail magnetic field relaxes impulsively
 - Energetic particle fluxes increase
 - Auroral brightens and expands
- What is happening here?
 - Particles injected from tail?
 - Particles released from radiation belts?
- IMAGE-ing by HENA (next page) reveals:
 - Pre-existing dense plasma sheet
 - Moves Earthward and fluxes intensify
- Conclusion
 - Particles are accelerated and injected, intensifying fluxes closer to Earth, as magnetic field relaxes abruptly.
 - Consistent with model of Fok et al., JGR 1999.



First IMAGE-ing of Particle Acceleration by Dynamic Magnetic Fields (HENA)

