SEP Science

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for R.A. Mewaldt

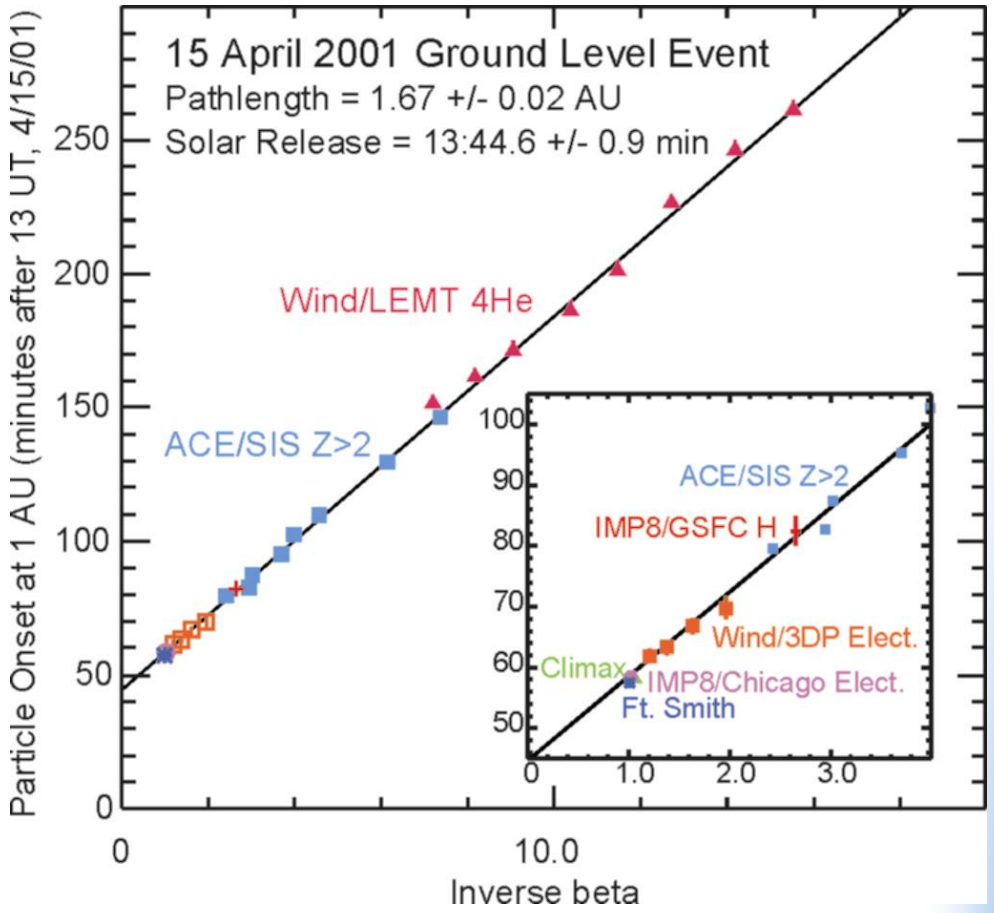
Caltech

Science Questions

- When/where are ions accelerated?
- What is being accelerated?
- How do we explain ‘hybrid’ SEP events?

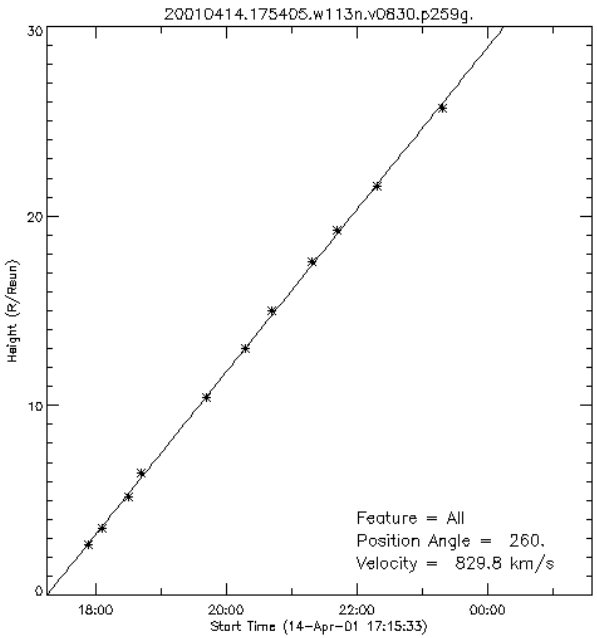
When/Where is the Acceleration?

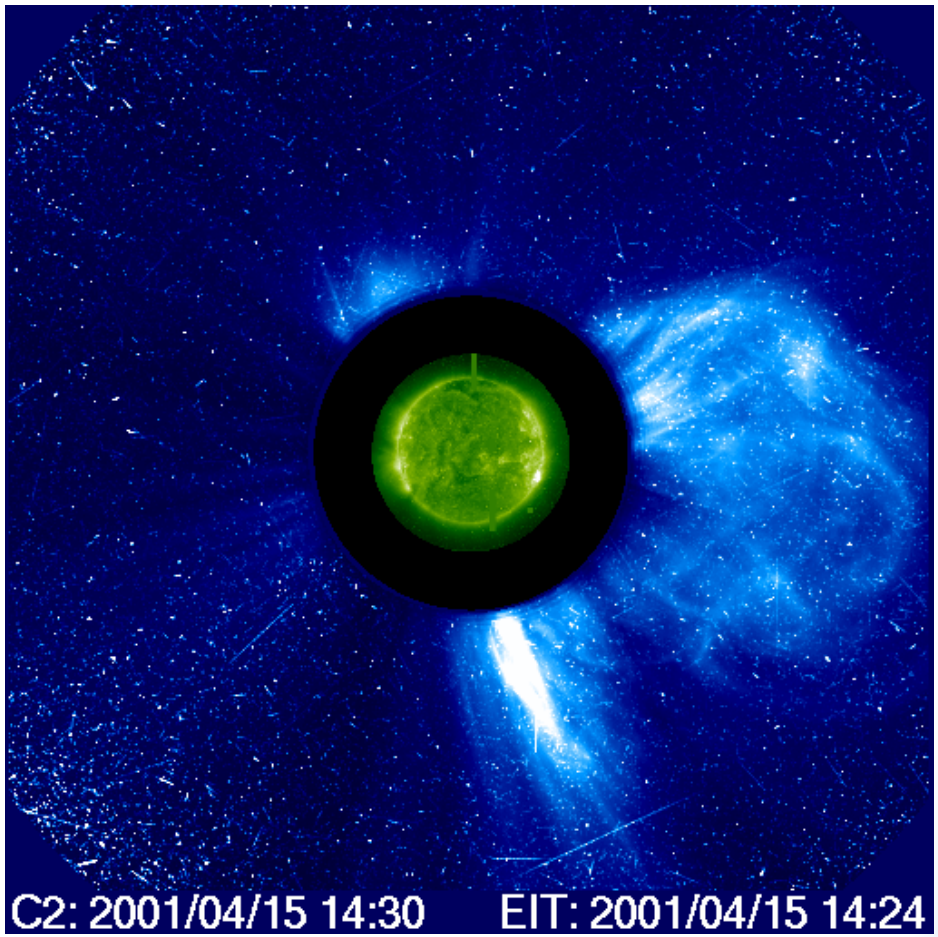
- Timing studies



When/Where is the Acceleration?

- Timing studies
- SECCHI CME observations





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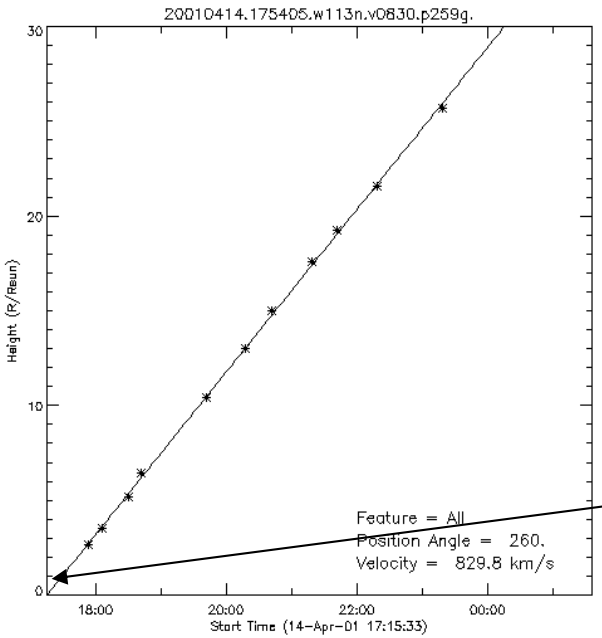
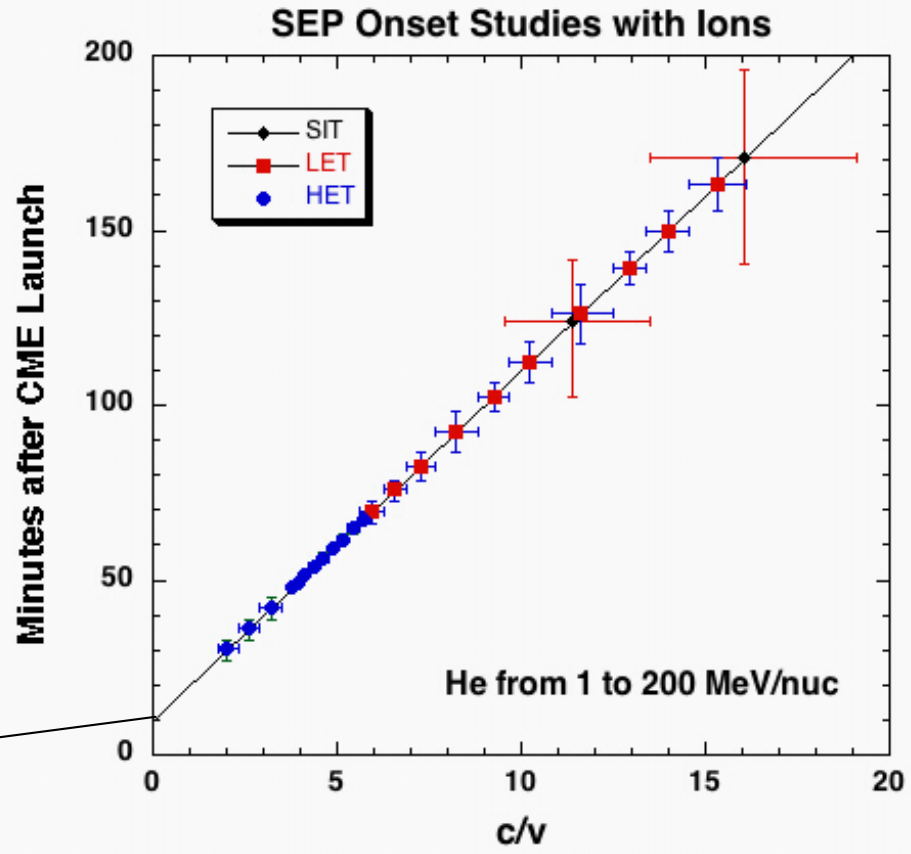
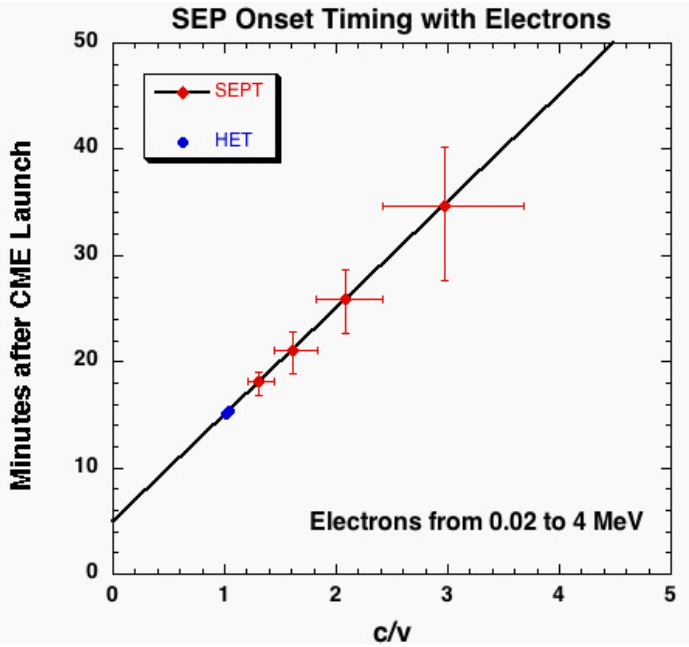
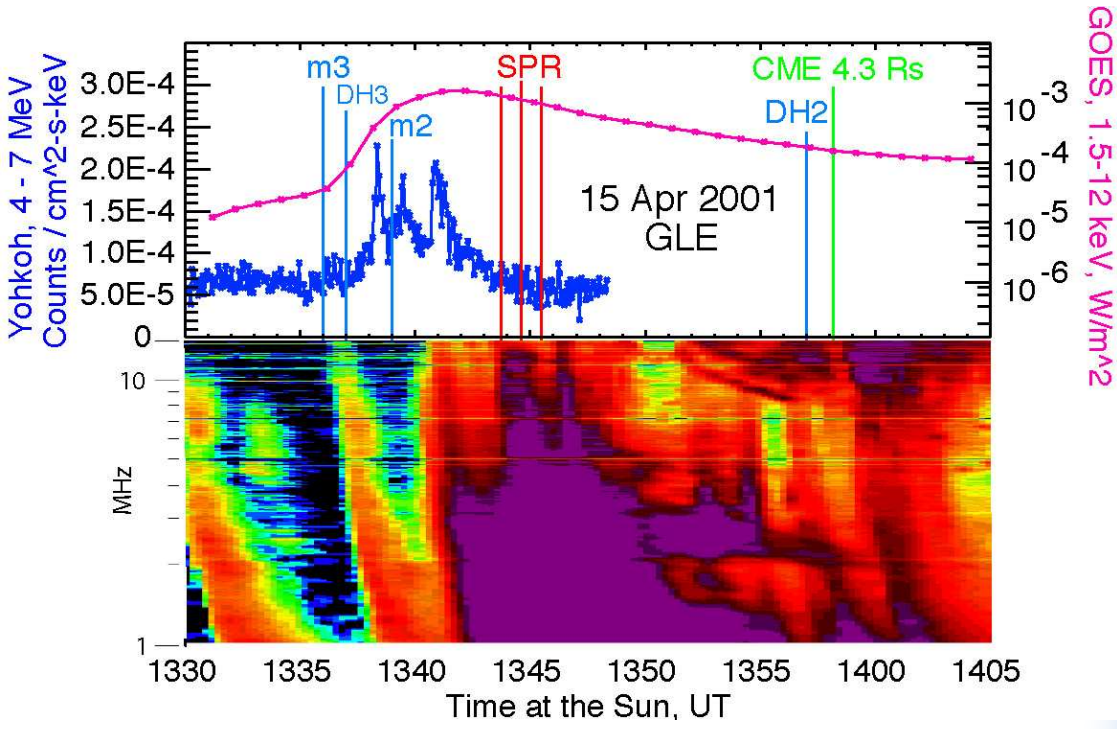




When/Where is the Acceleration?

- Timing studies
- SECCHI CME observations
- SWAVES

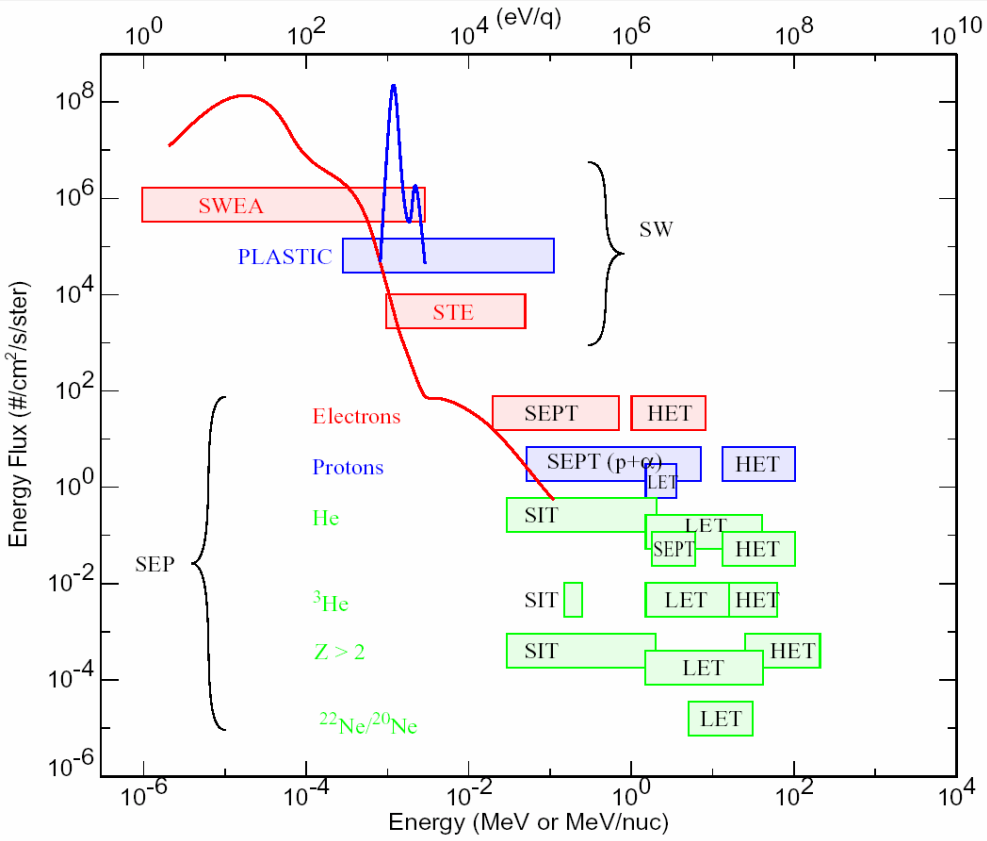




Wind/WAVES

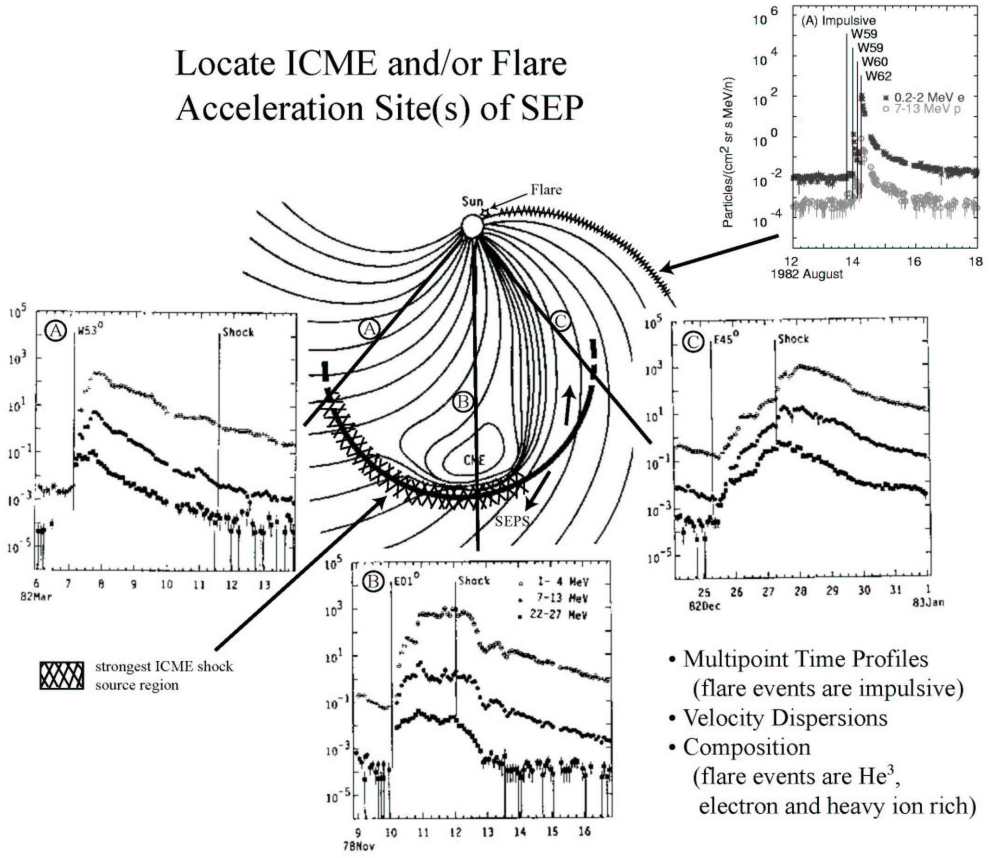
What is Being Accelerated?

- Composition over wide energy range
- Statistically significant time profiles
- Spectra over wide energy range for ‘signature’ particles (e.g., ^{3}He)
- PLASTIC composition of suprathermal seed particles



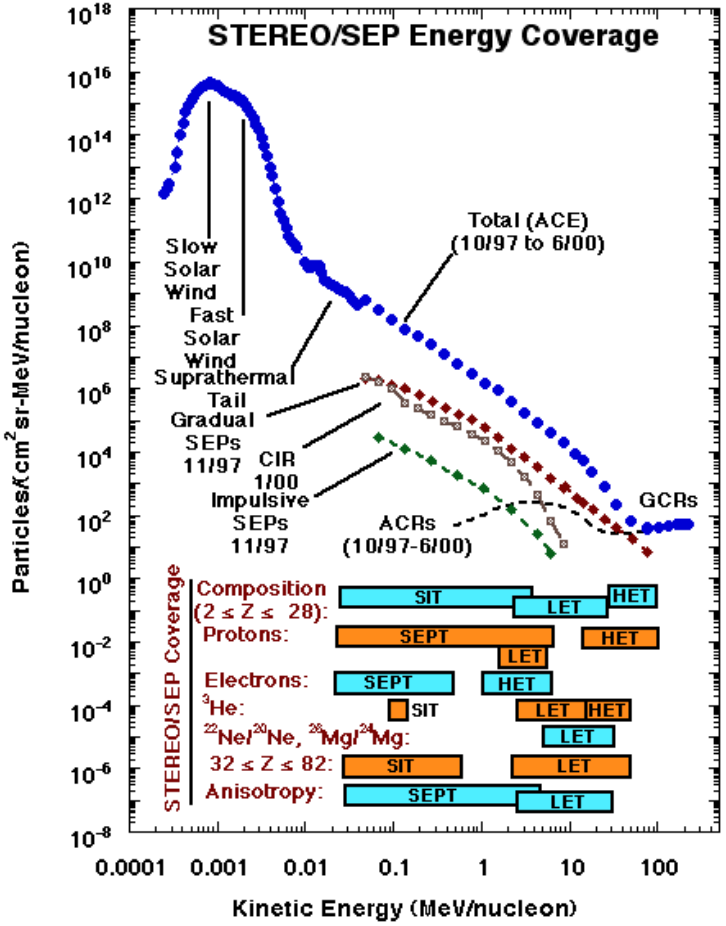
Understanding Hybrid Events

- Longitude dependence of composition



Understanding Hybrid Events

- Longitude dependence of composition
- Composition over large energy range



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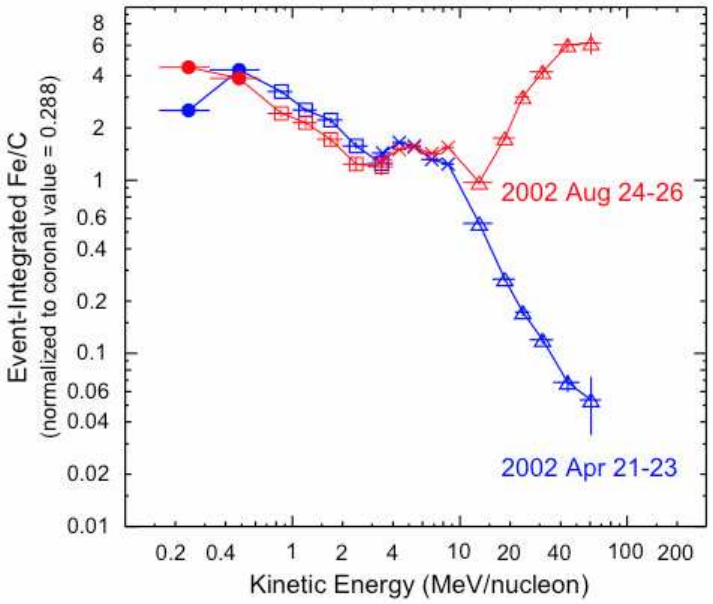
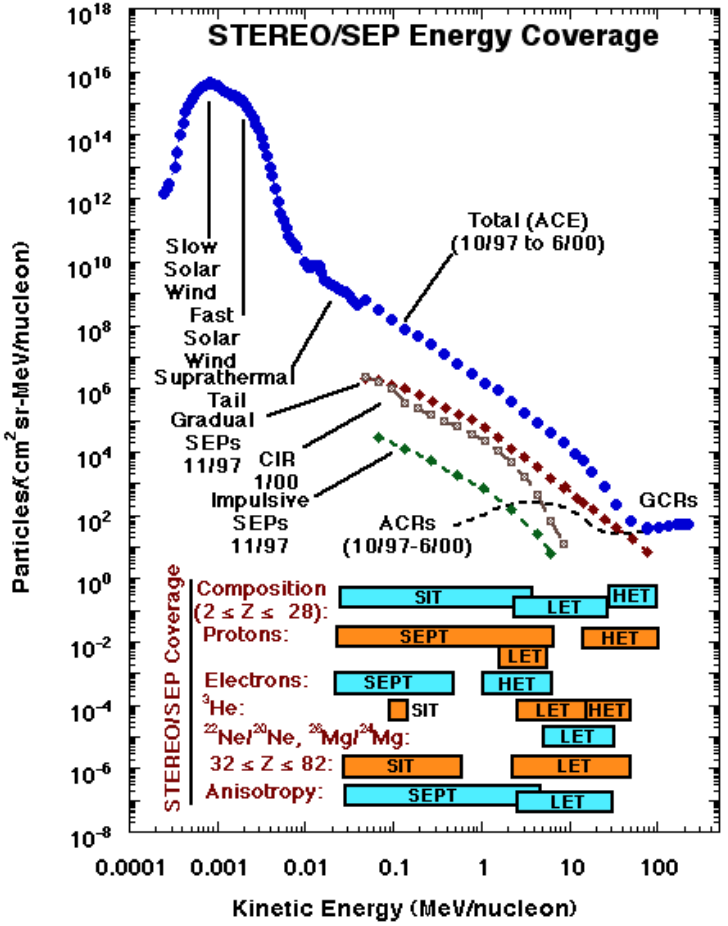
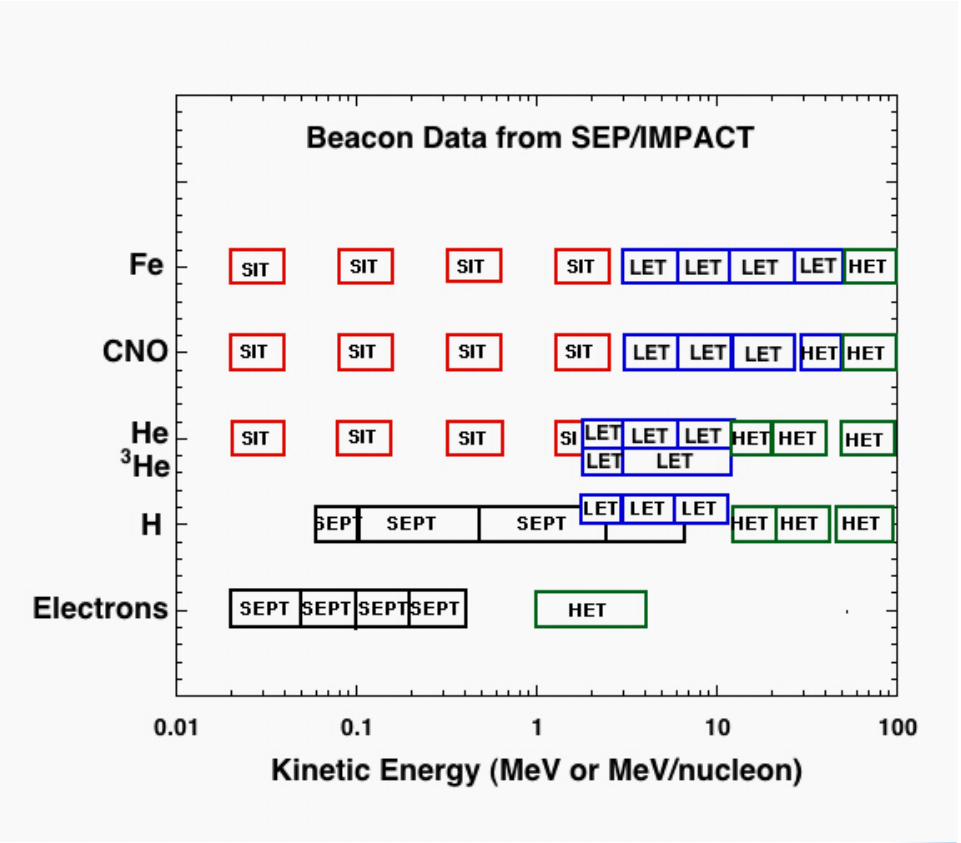


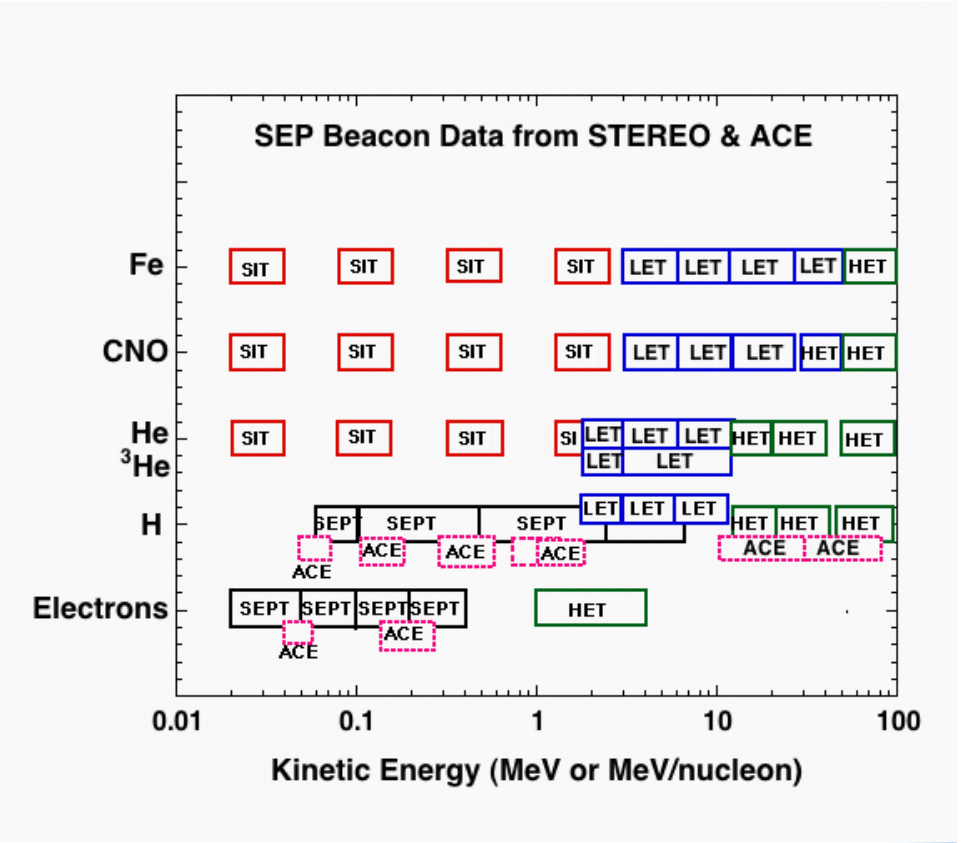


End

Beacon Data

- Real time heavy ion composition - new



Beacon Data

- Real time heavy ion composition - new
- H and e^- complementary to ACE