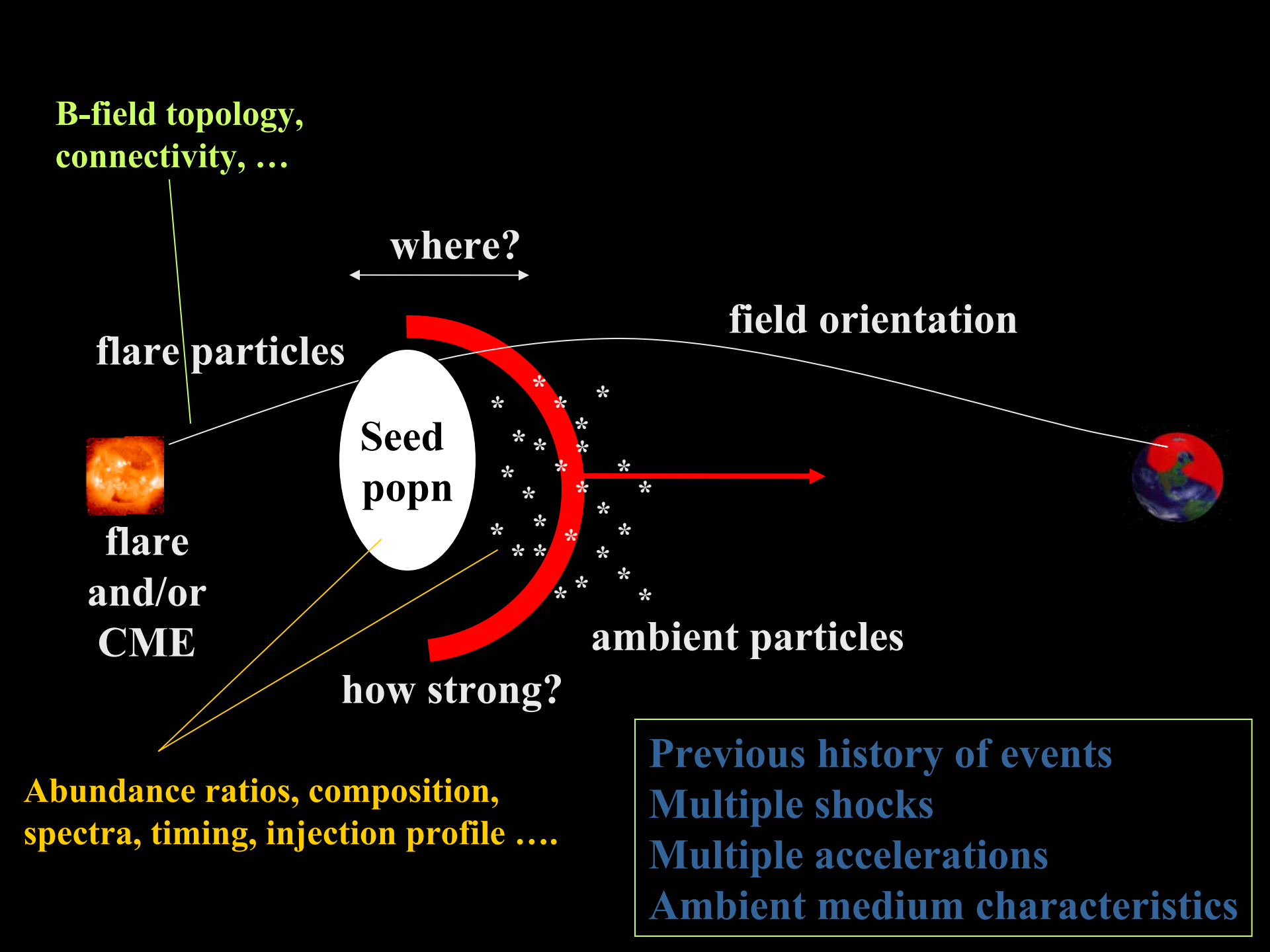
Working Group 1-3

Focus: the acceleration and transport of energetic particles and what we can learn about the relationship between SEP events, CMEs, and flares

- magnetic field topology
- flare seed population
- shock formation


B-field topology,
connectivity, …
where?
field orientation
flare particles
Seed
popn
flare
and/or
CME
ambient particles
how strong?
Abundance ratios, composition,
spectra, timing, injection profile ….
Previous history of events
Multiple shocks
Multiple accelerations
Ambient medium characteristics

Questions for Solar Community

- Shocks at 2-5 R_S
  - Where and how strong
- Magnetic Topology
  - connection to flare, interchange reconnection
- Pre-eruption history (campaign events)
- Blast waves
  - Diagnostics
  - How strong
  - Particle effects
- Relative Timing of Observables (campaign events)

Questions for the SEP Community

- Energy budget
  - particles, shock
- Injection Profiles
  - more examples, more techniques

Questions for Theorists

- Timing differences
  - parallel vs perpendicular shocks
- Blast wave acceleration
  - can it accelerate particles to significant energies
  - resulting measurables (spectra, flux)

Your Task if You Choose to Accept It

- Submit your top 3-5 questions for the other community
- Feed back for how to continue next year
- List of things that you are willing to investigate over the next year