

Shocks and Cross-Scale

- Identification of cross-scale coupling scenarios – not the same in all cases
- Examples:
 - Quasi-perp: electron-ion coupling for thermalization (via shock potential structures)
 - Quasi-par: foreshock waves – pulsation growth – small scale evolution
 - Global aspects eg: q_{\perp} beams \gg q_{\parallel} foreshock

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- Quasi-parallel shock and energetic particles – has this topic been given sufficient emphasis?
 - energetic particle instrumentation (cadence, sensitivity etc)
- Orbit: Equatorial better – need to sample foreshock

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- Mothership – a good idea for eg single point composition and 3D electric field
- Constellation and number of s/c – no single obvious optimization: eg maybe a set of close pairs