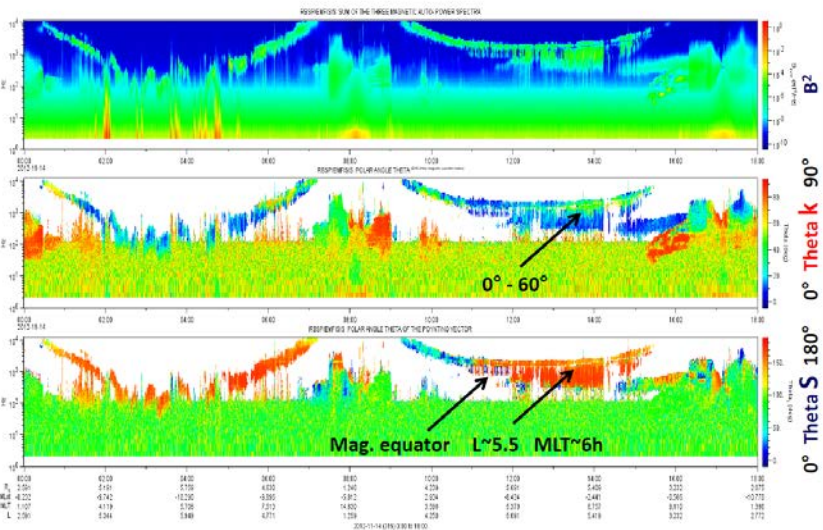


“Structure of large amplitude chorus elements: measurements of the Cluster WBD and Van Allen Probes EMFISIS instruments”

O. Santolik, J.S. Pickett, D.A.Gurnett, C. A. Kletzing, W. S. Kurth, G. B. Hospodarsky, S. R. Bounds



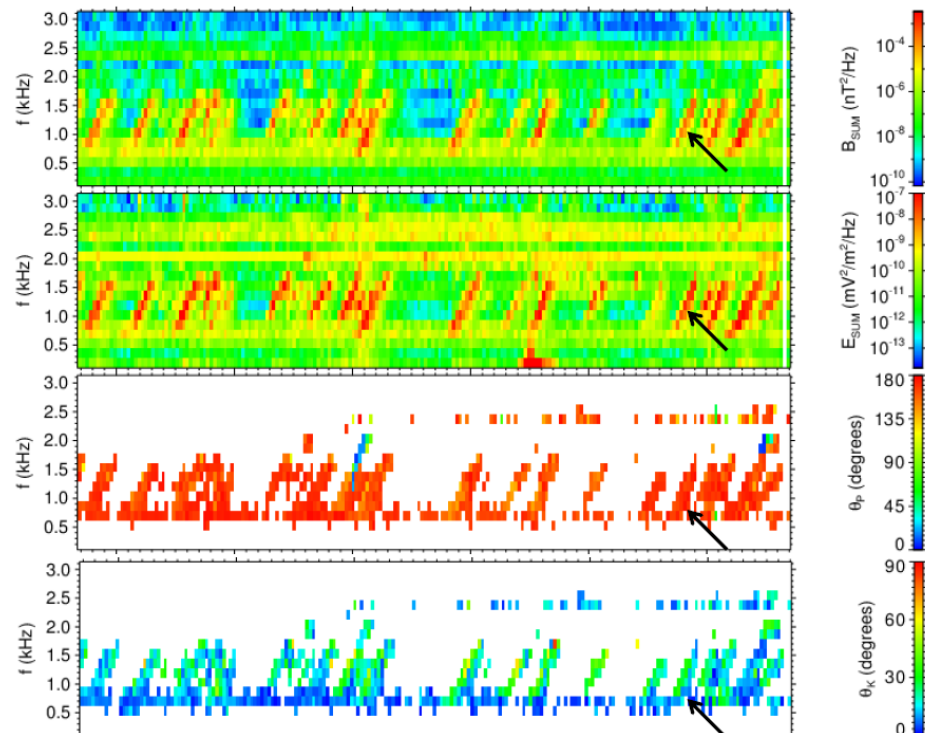
Van Allen Probes 2012-11-14 14:10:52.680 - 2012-11-14 14:10:58.709 0.1025 - 3.135 kHz

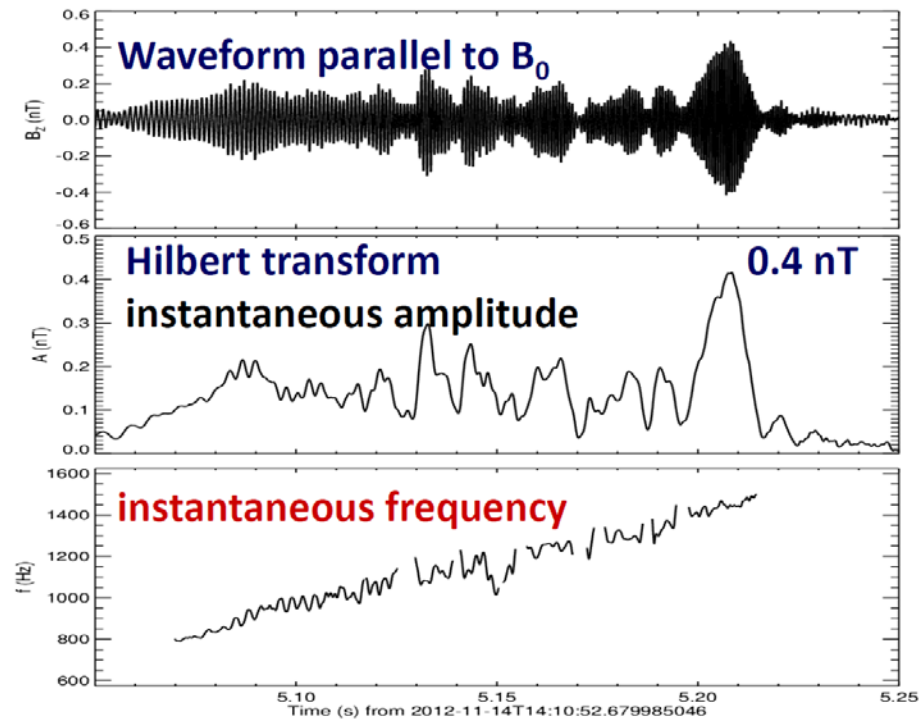
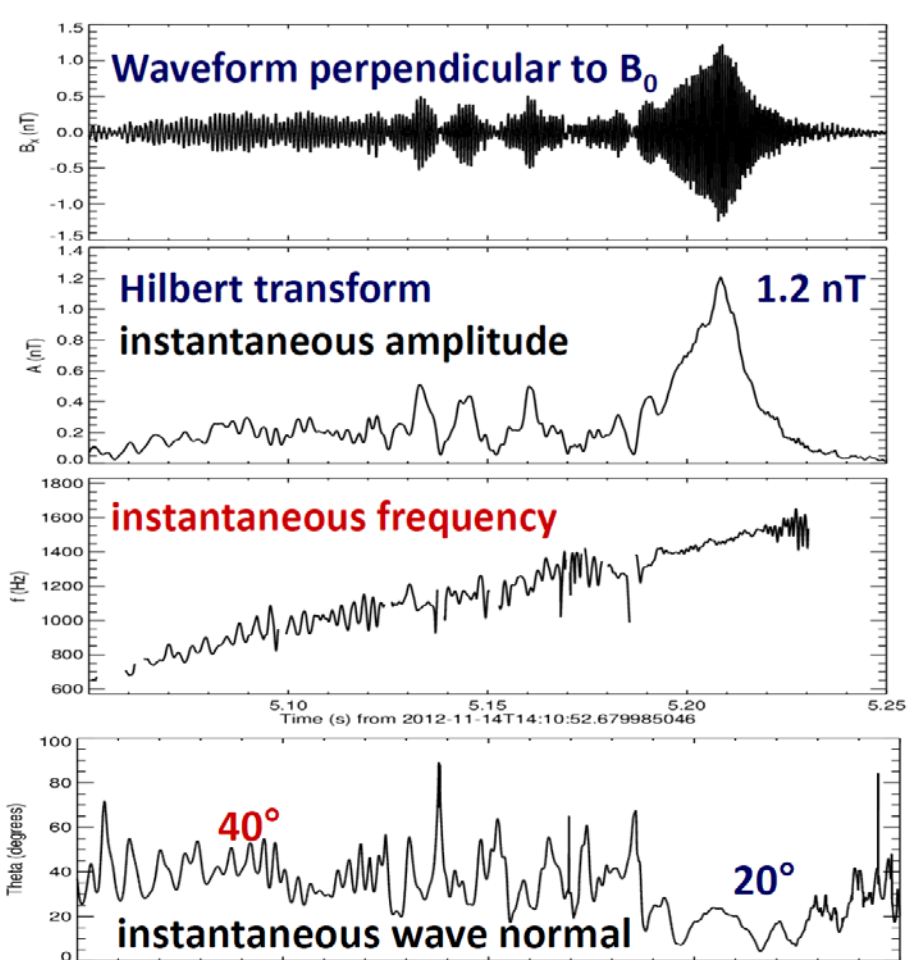
SUM OF THE THREE MAGNETIC AUTO-POWER SPECTRA

SUM OF THE THREE ELECTRIC AUTO-POWER SPECTRA

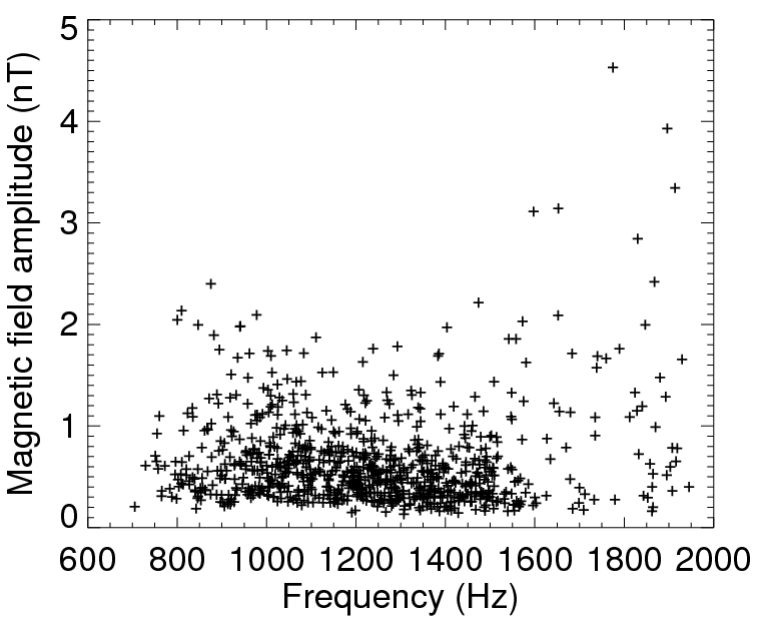
POLAR ANGLE THETA OF THE POYNTING VECTOR

POLAR ANGLE THETA (SVD of the magnetic spectral matrix)

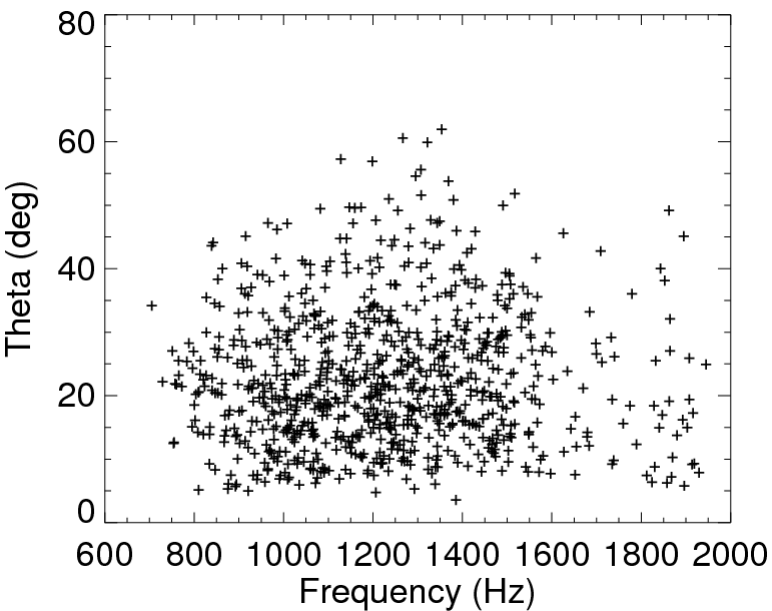




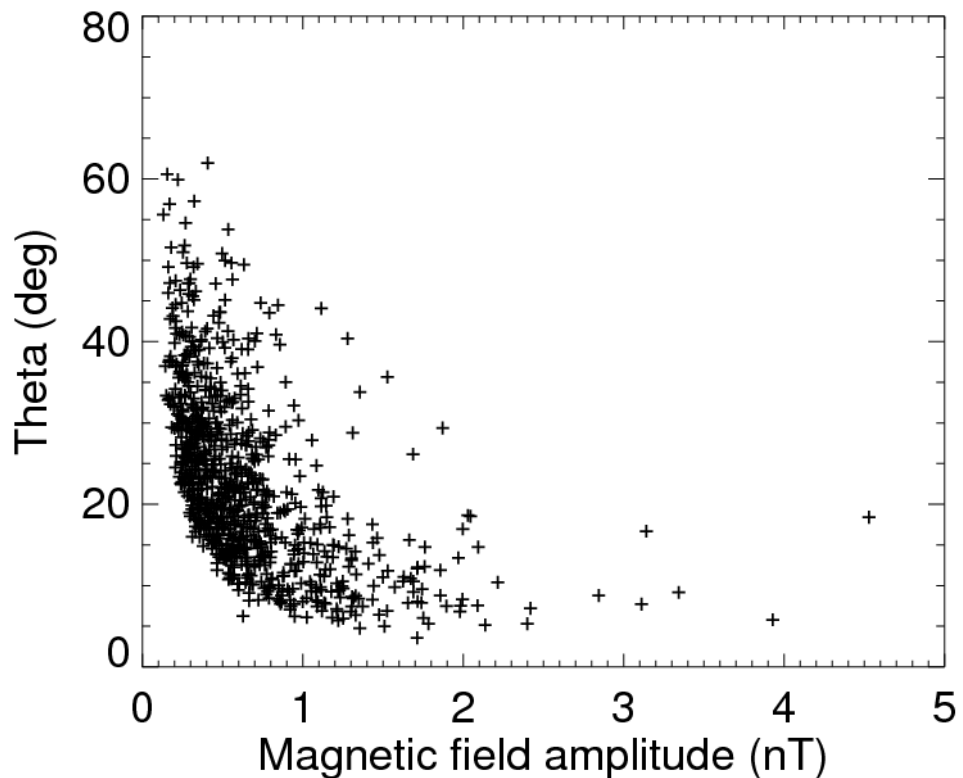
- Largest amplitudes of the embedded sub-packets can be found in the end on the rising element, i.e., at higher frequencies
- **Theta changes within a single element**



Highest amplitudes at higher frequencies but high amplitudes can also be found in the beginning of risers



Theta is organized as a function of subpacket amplitudes – lower theta for the highest amplitudes



No clear result for theta at different frequencies