

Ion Bernstein

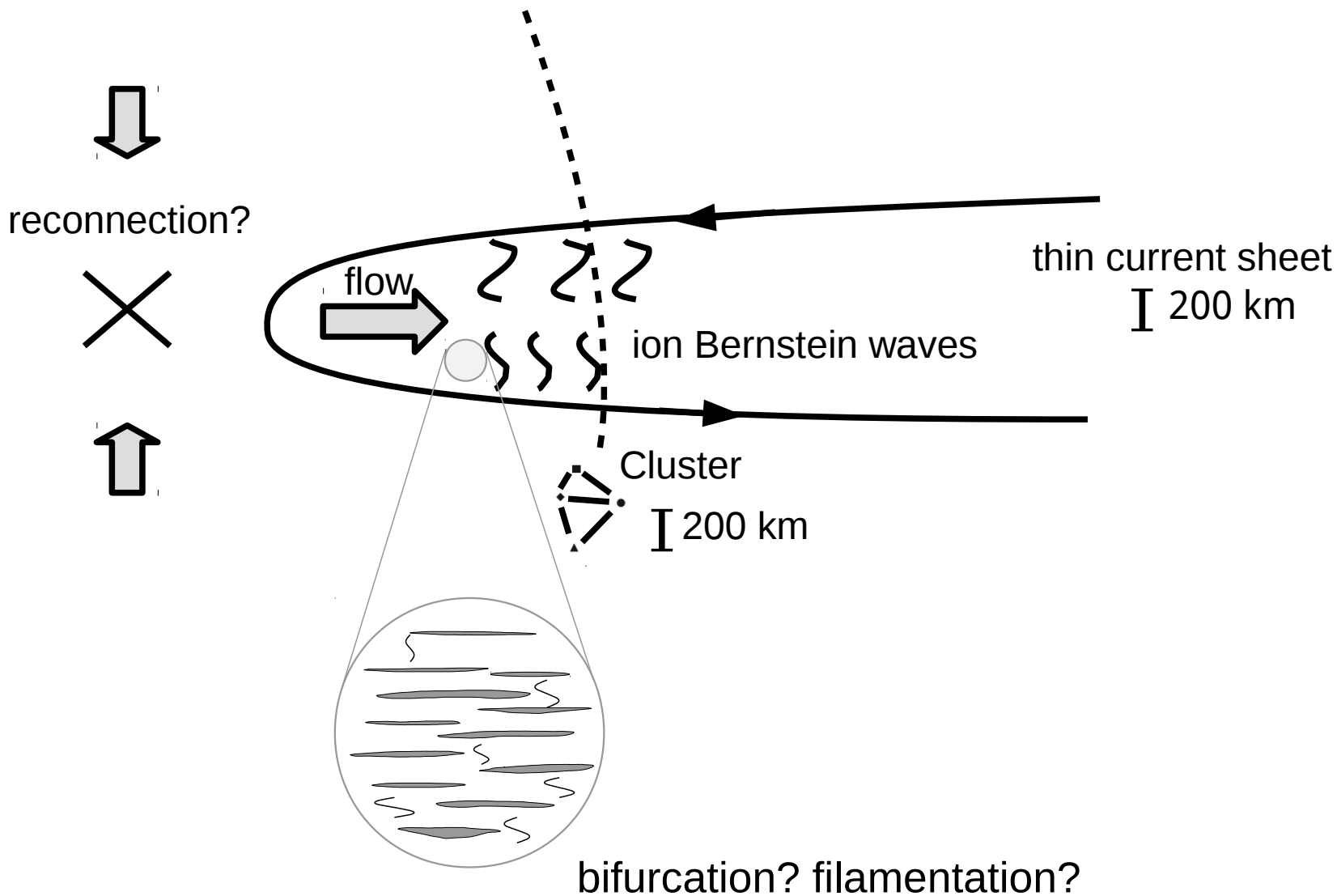
Whistler waves and reconnection

Y. Narita

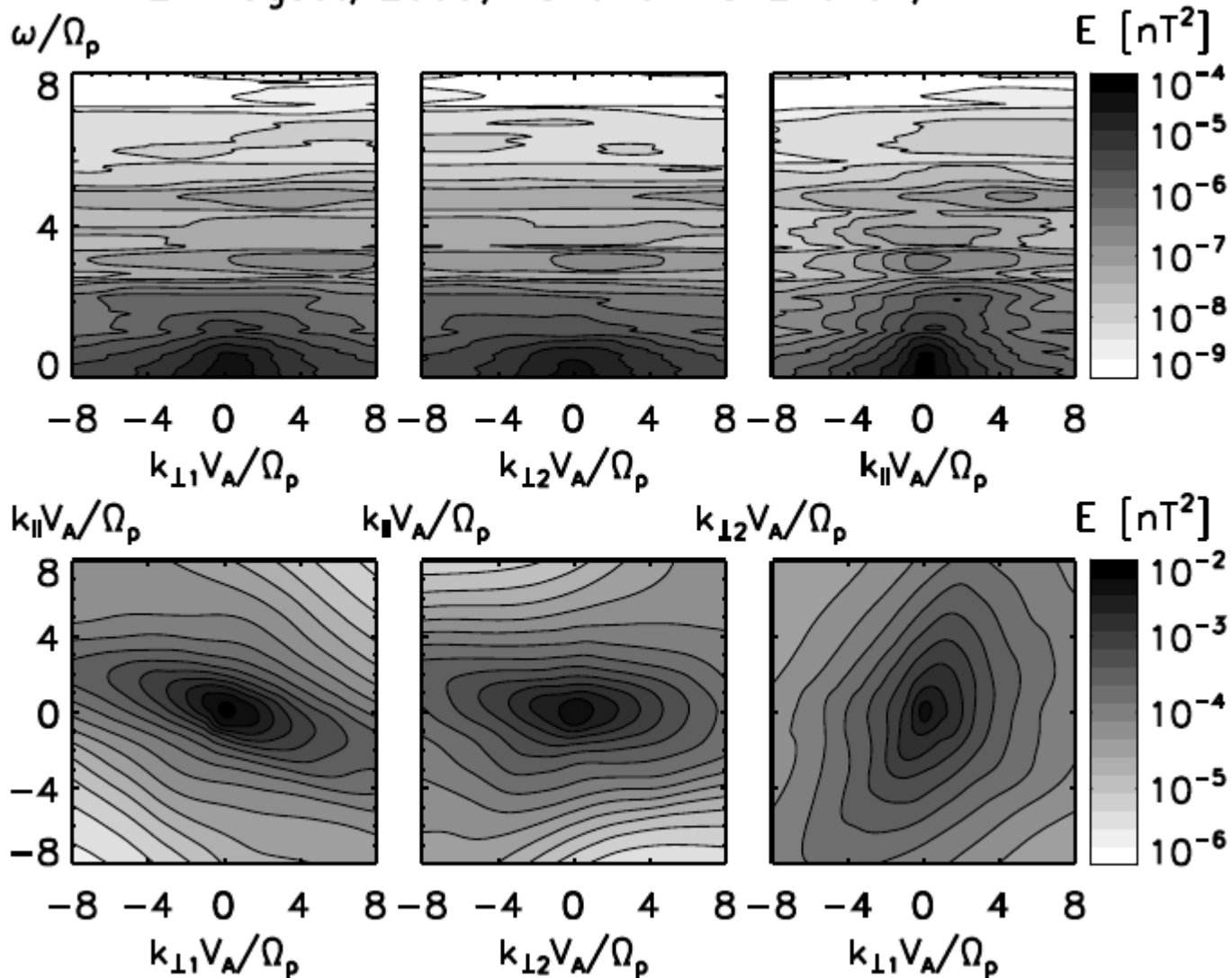
Space Research Institute (Graz)
Austrian Academy of Sciences

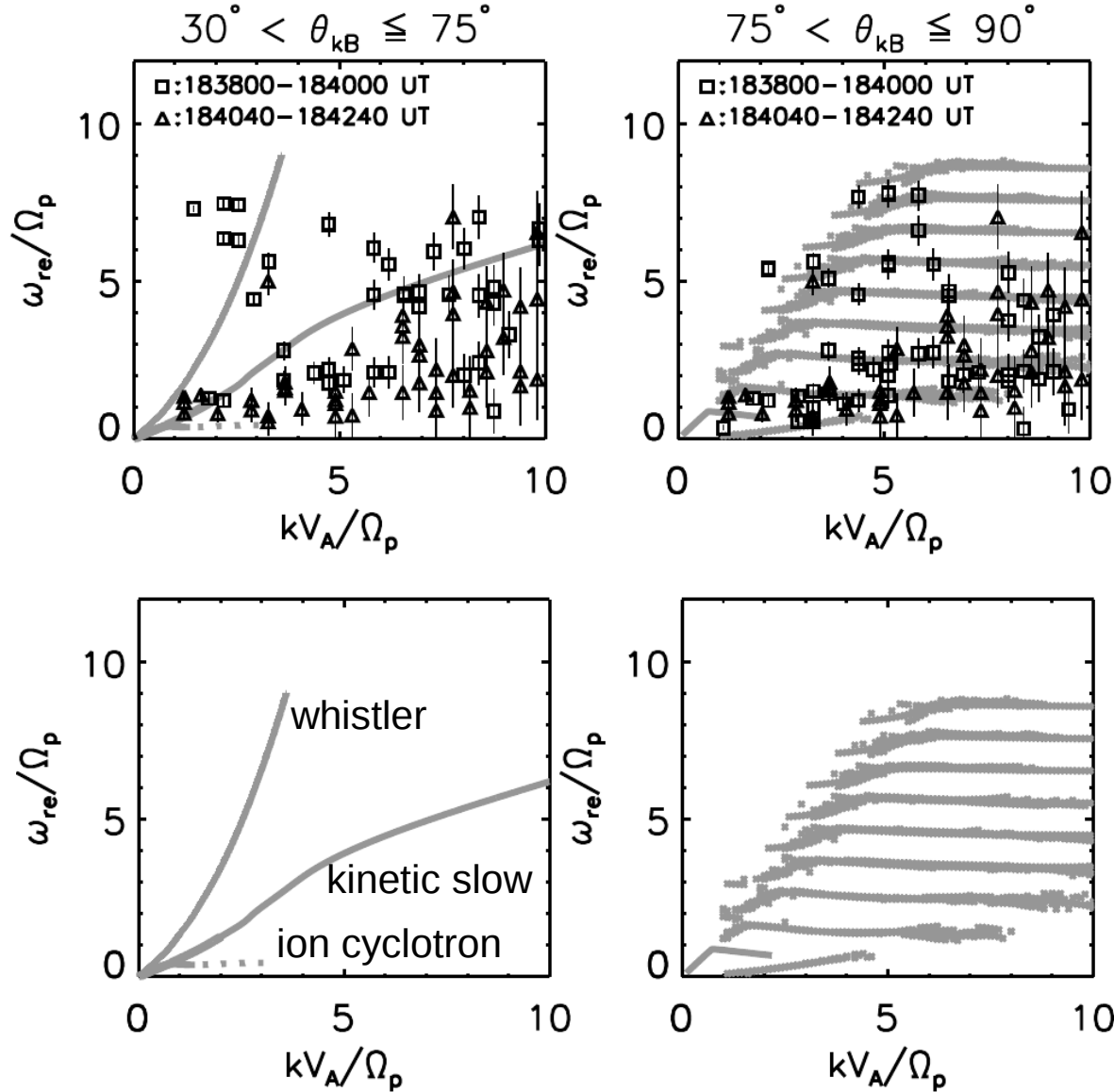
Many thanks to:

R. Nakamura, W. Baumjohann, K.-H. Glassmeier,
U. Motschmann, H. Comișel, R. A. Treumann

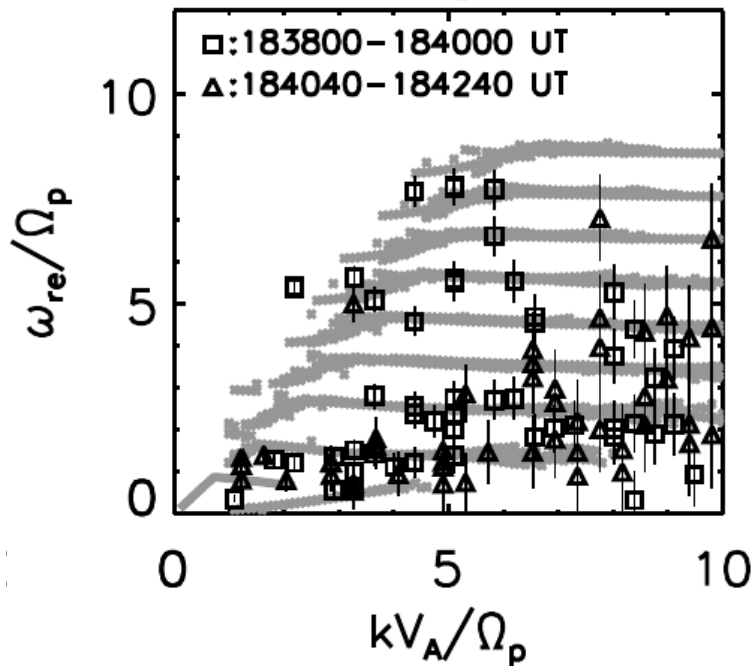


24 August, 2003, 184040–184240 UT, MFA



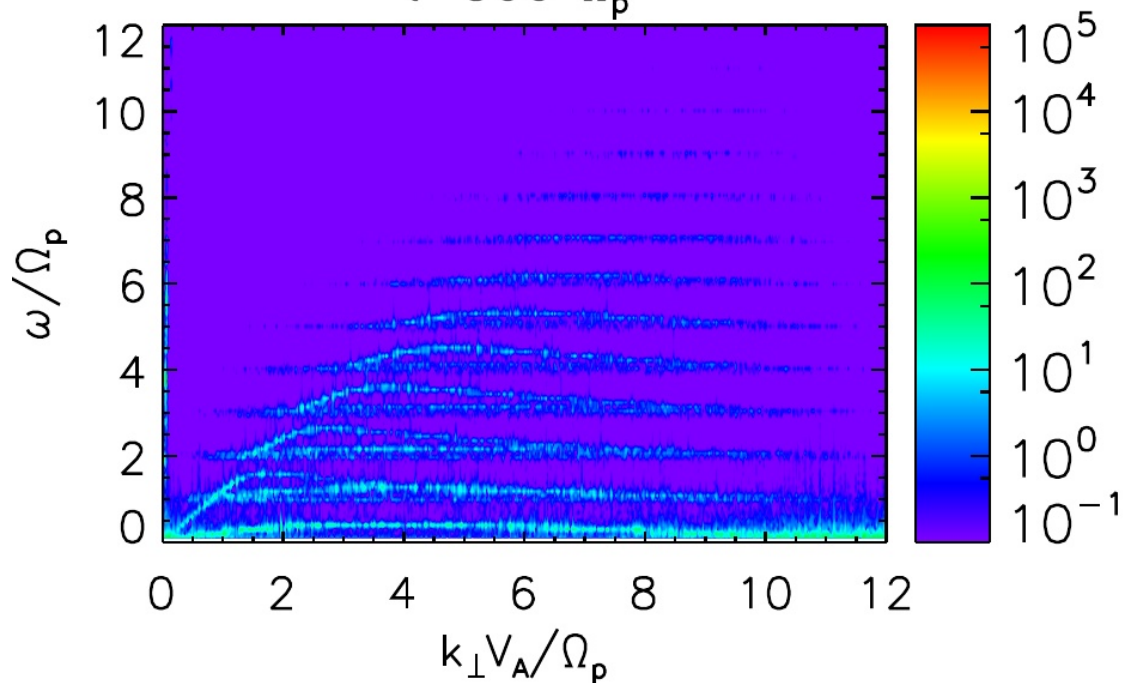


$75^\circ < \theta_{kB} \leq 90^\circ$



Cluster event in 2003

$t = 300 \Omega_p^{-1}$



Horia Comișel, Uwe Motschmann
 Hybrid code AIKEF developed
 in Braunschweig (DE)

Can Bernstein waves trigger reconnection?

In principle possible, but it would be a slow reconnection process.

Can waves be excited by reconnection?

Likely yes, and if so, ion Bernstein waves may lead to bifurcation of the current sheet in the outflow region.

Philippe Bourdin & Takuma Nakamura working on PIC simulations

Meet Philippe on Friday 15 August.

