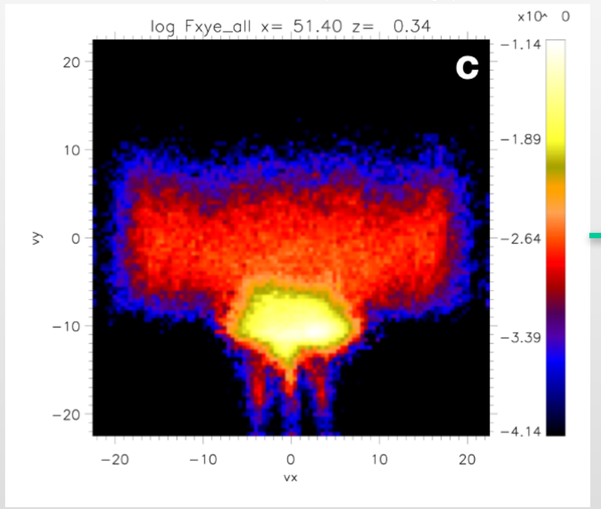
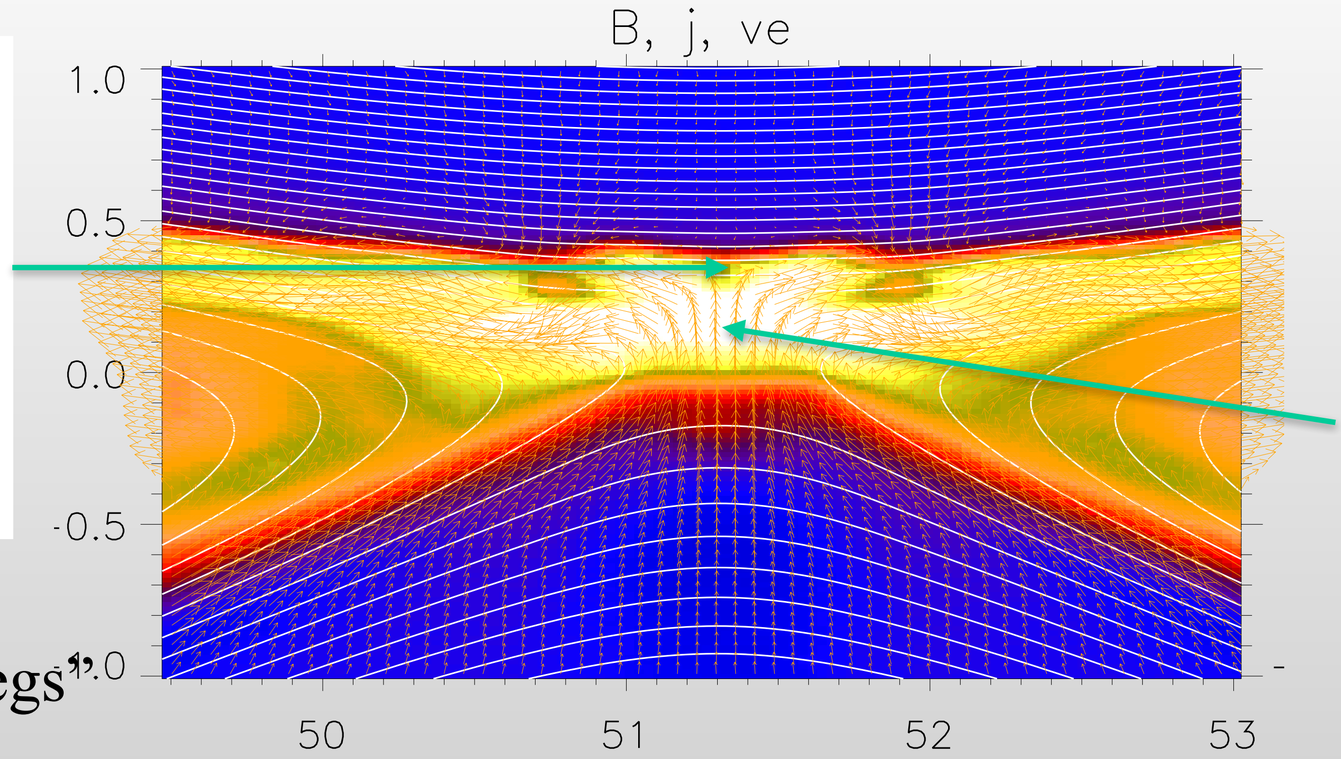
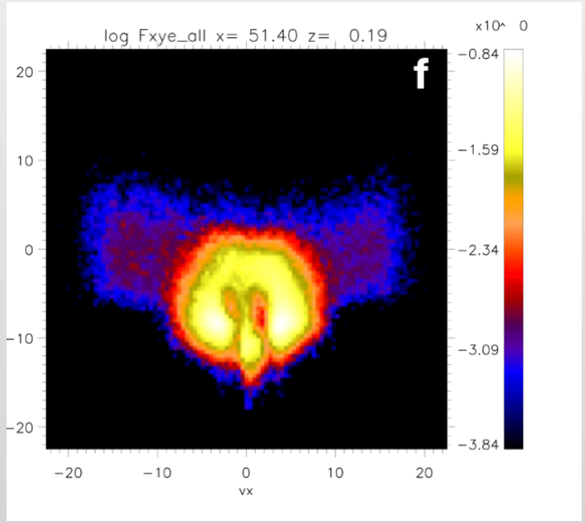
Complex Distributions in Asymm. Reconnection

$F(v_x,v_y)$





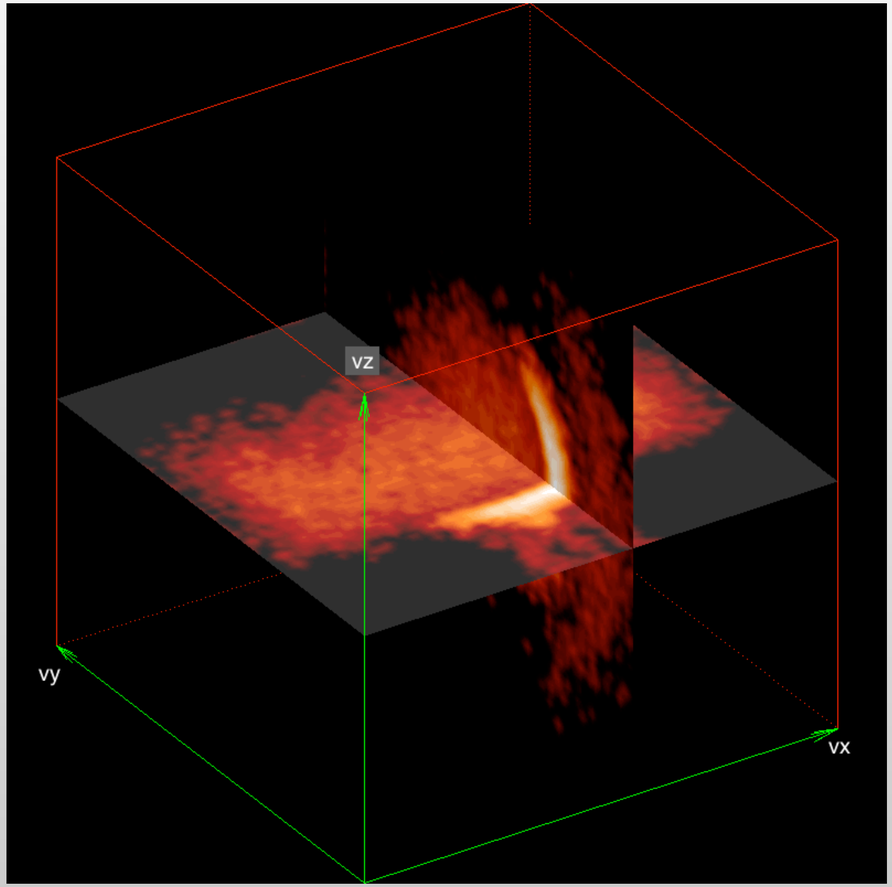
$F(v_x,v_y)$



Stagnation point:
Crescents and "crab legs"

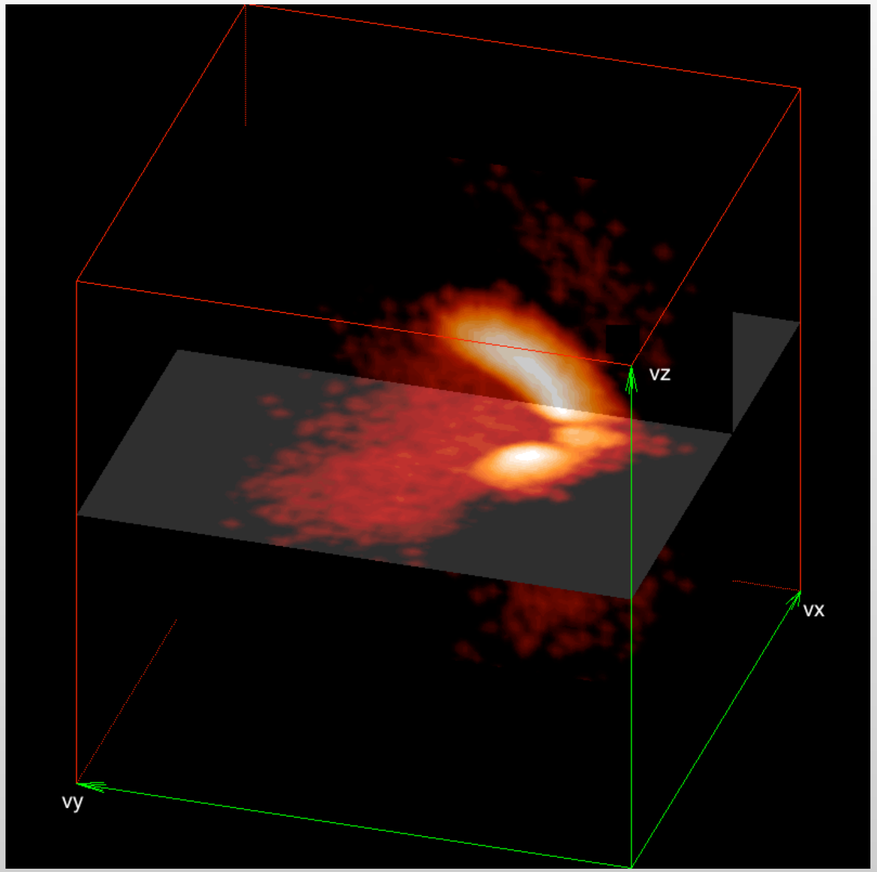
j max: Degenerate crescents with triple substructure

3D Analysis: Stagnation Point

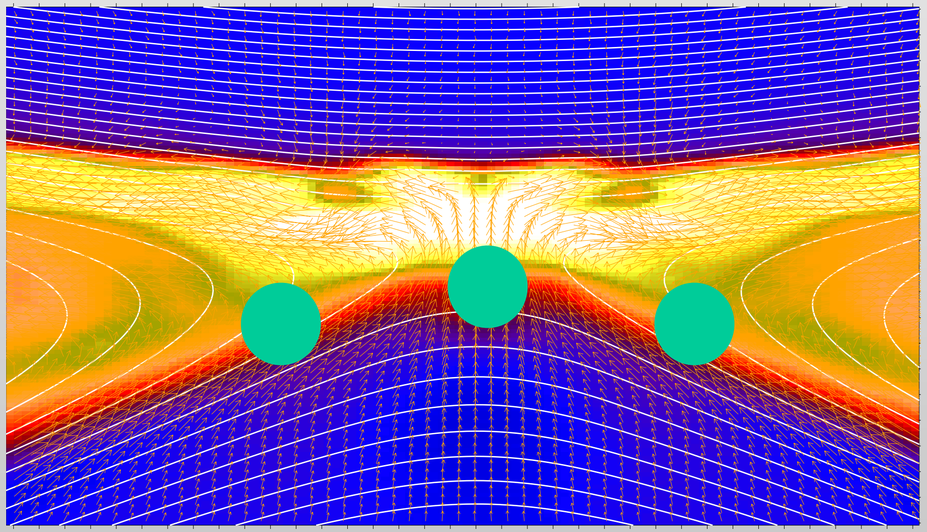


- Crab legs are a second layer of crescents
- Crab legs are formed by **magnetospheric** particles, whereas ordinary crescents have sheath source
- Triple structure appears to be related to a resonance between bounces and motion in x

3D Analysis: j maximum



- Degenerate crescent is actually a triple set of crescents
- Particles contributing to the individual legs have different origins in the sheath-side inflow region as indicated



Distribution function structure and mixing in the EDR can be even more complex than expected