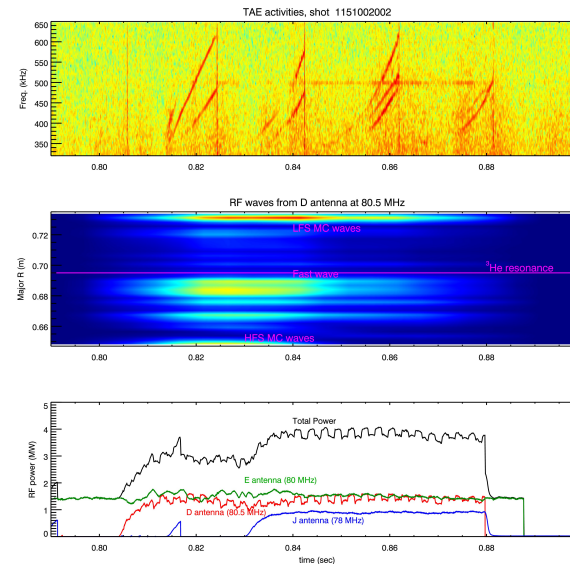
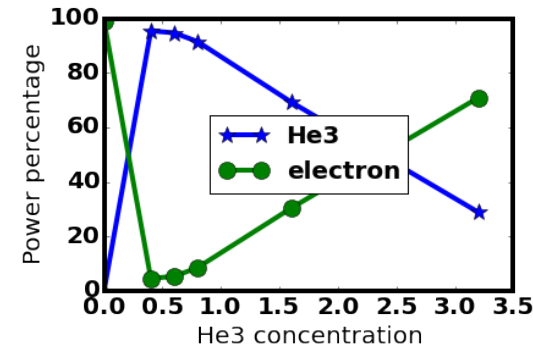


# Experimental Results from Three-ion Species Heating Scenario on Alcator C-Mod

- High efficiency minority heating scenario for generation of fast ions at very low ion concentrations using H-(D)-(He3)
- First experimental tests on Alcator C-Mod and JET.
- Alfvén eigenmode behavior observed during ICRF power in both devices.
- At least 50% more heating efficiency than standard D-He3 minority heating
- Possible fast ion source on W7-X and ITER non-activated phase.



J. Wright, S. Wukitch, Y.O. Kazakov, Y. Lin, E. Edlund, M. Porkolab, D. Van Eester, and J. Ongena

Support : DoE contracts  
Alcator C-Mod  
DE-FC02-01ER54648 and  
Wave-Particle Interactions SciDAC  
DE-FC02-01ER54648