

One step back: a proposal to return one pair of HHFW straps (one transmitter) to end-ground

P. Ryan – WEP SFG Meeting 1/26/2012

- Return one pair of straps to end-grounded geometry.
- Side by side comparison in the same environment for systematic antenna/plasma edge interaction studies.
- If center-grounded pairs can deliver $\sim 2X$ the power of end-grounded:
 - Conclusively demonstrate that power is limited by internal antenna voltage.
 - Sacrifice less than 10% in total system power capability.
- If center-grounded and end-grounded straps have same power limit
 - Demonstrate that power is limited by strap current (external fields), not internal voltages.
 - Implications for ITER antenna design.
 - No sacrifice in power capability.