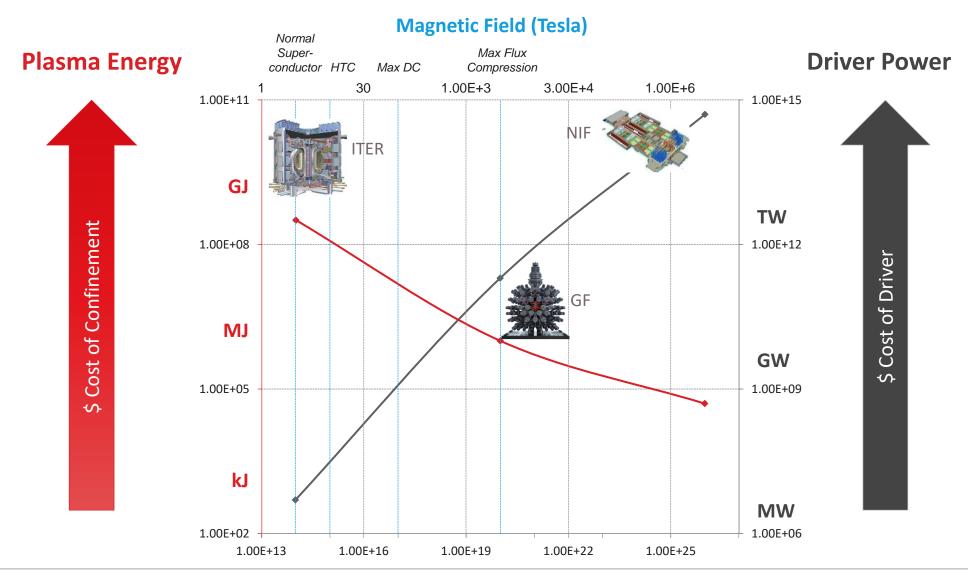


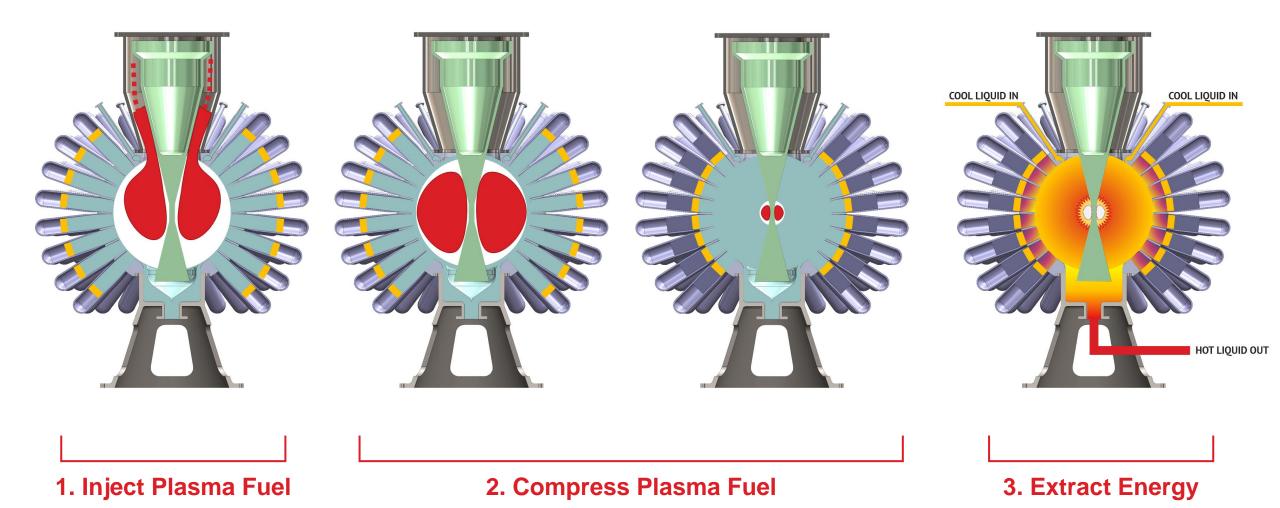


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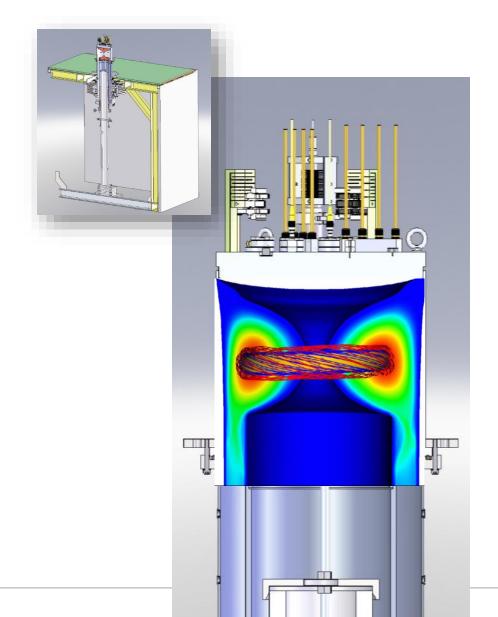
Fusion Technology Comparison



General Fusion's Solution



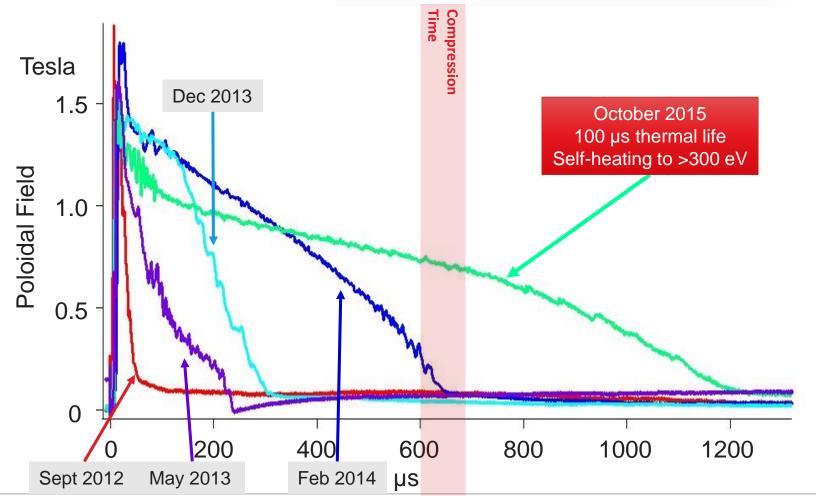
Small Plasma Injector



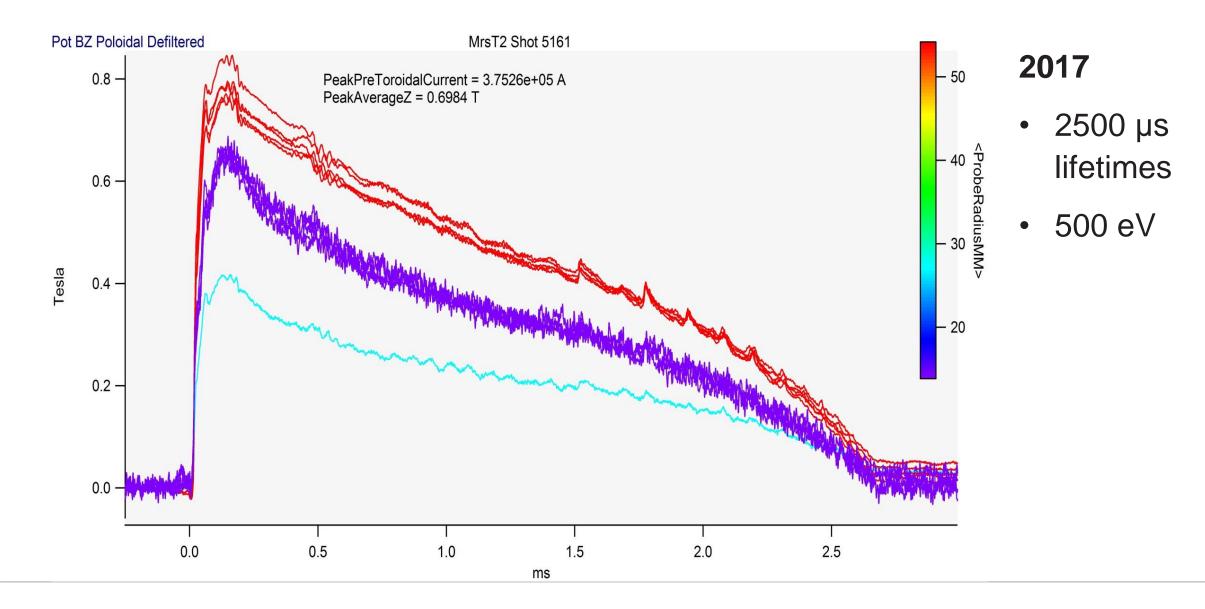
- Direct formation: no acceleration stage.
- Comparable to CTX and SSPX designs
- Lower maximum plasma density than large injectors
- Faster design iteration
- Designed for use in plasma compression experiments

Plasma Lifetime Progress

General Fusion has created a long-lived plasma that we believe is good enough to compress.

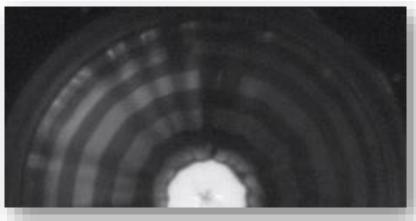


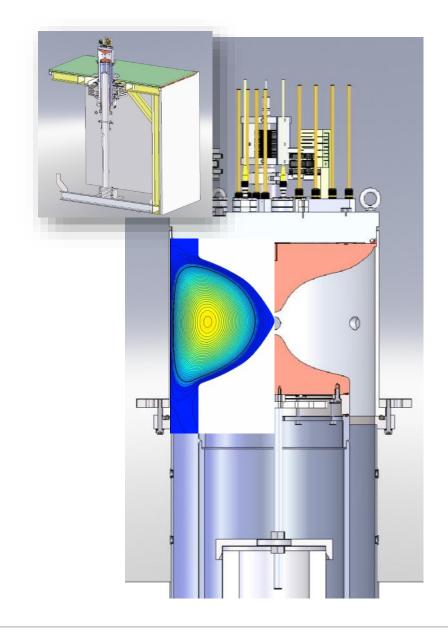
Spherical tokamak 500 eV from TS



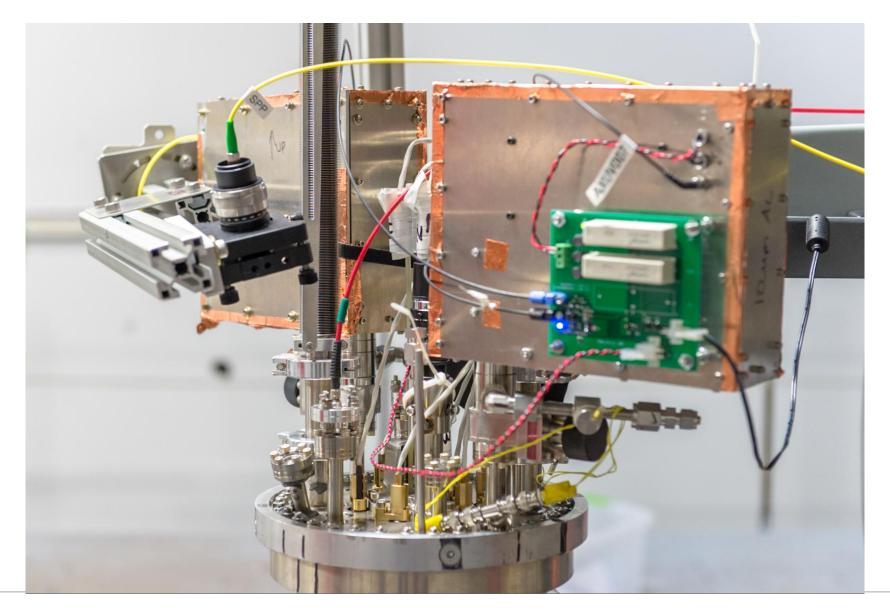
Plasma Compression Testing



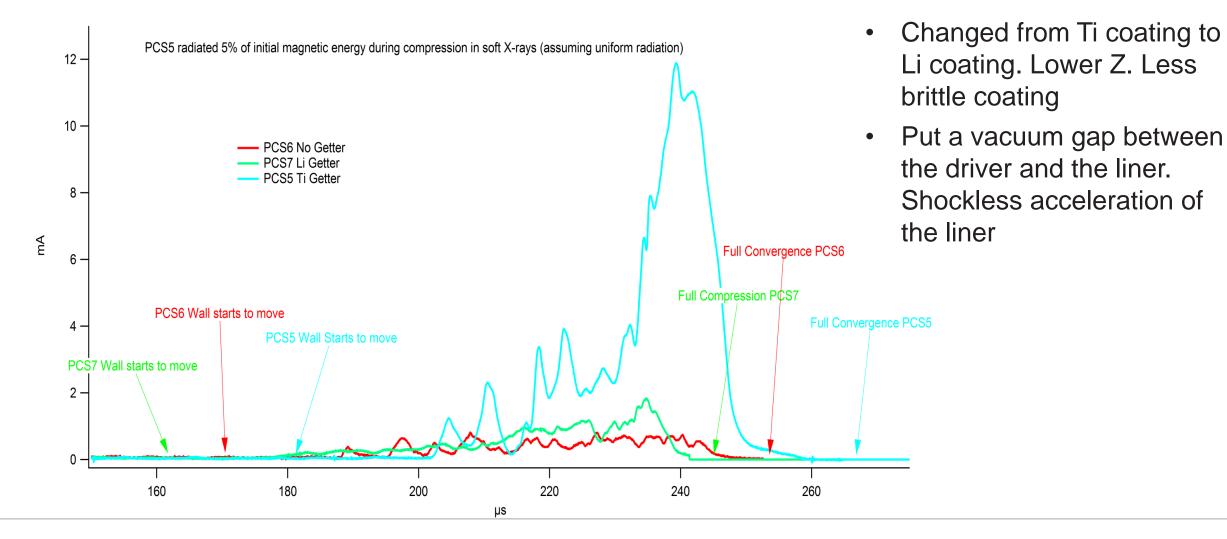




Diagnostics

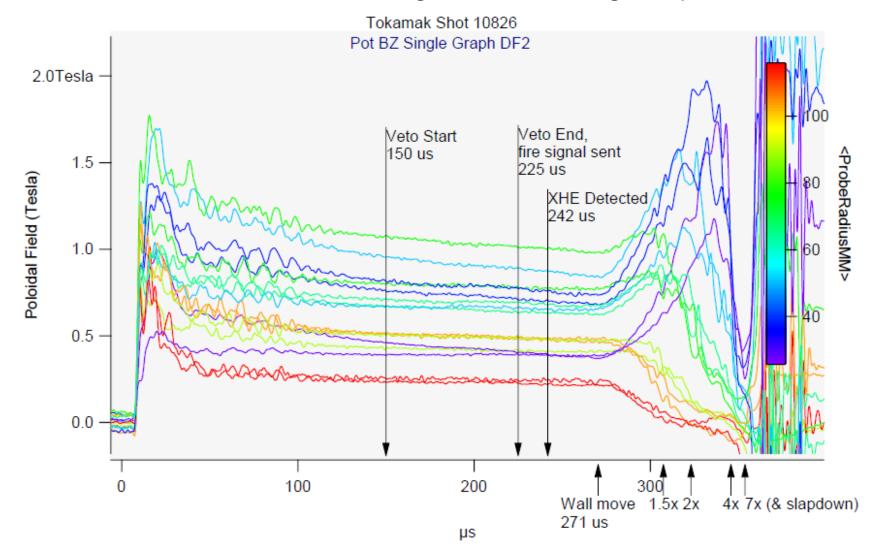


Fixed Radiation Death

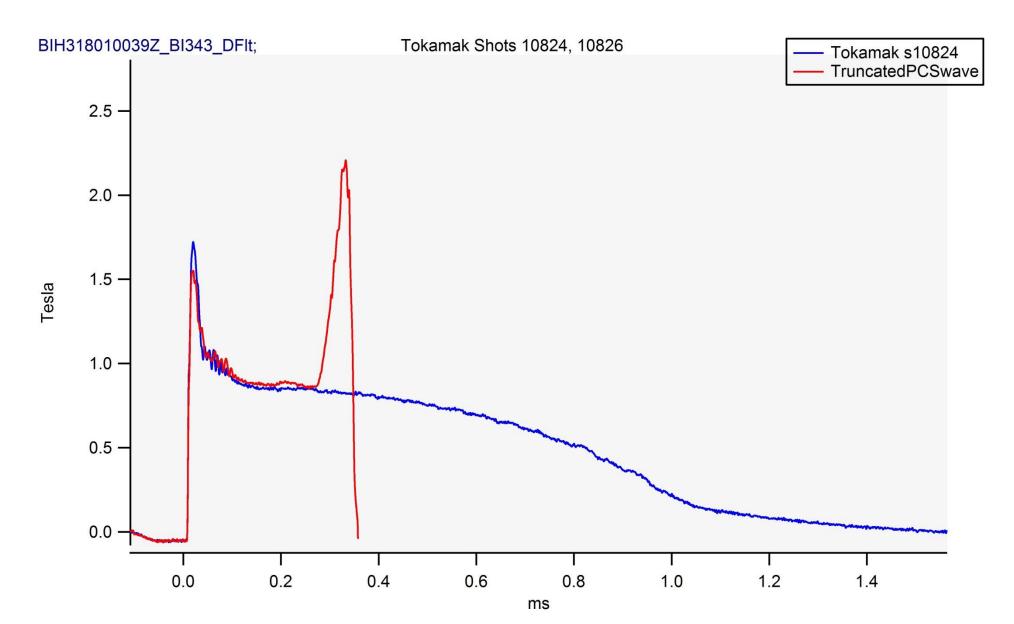


Poloidal Field Compression: Compression Test #12

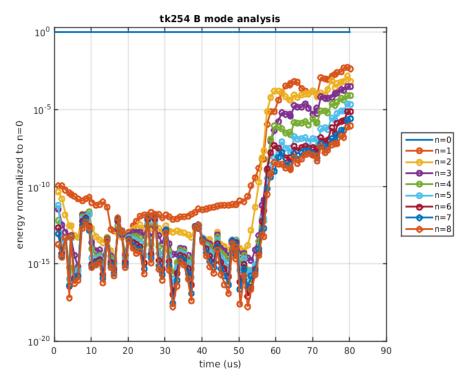
Chart of increase in magnetic field during compression

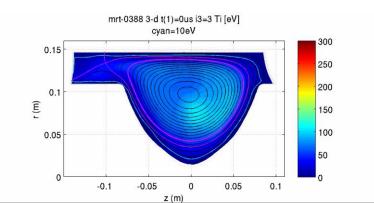


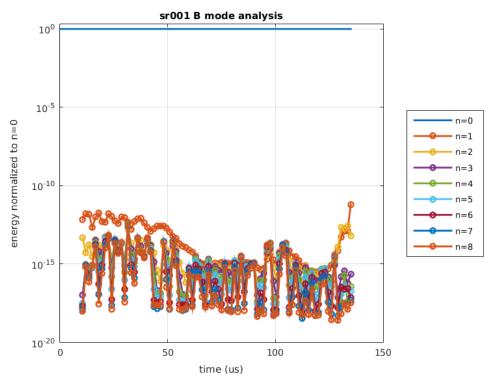
Uncompressed (blue) compared to compressed (red)

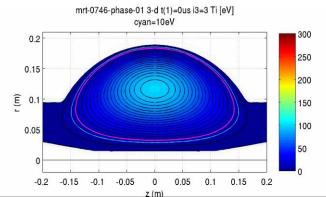


Change in Compression Geometry





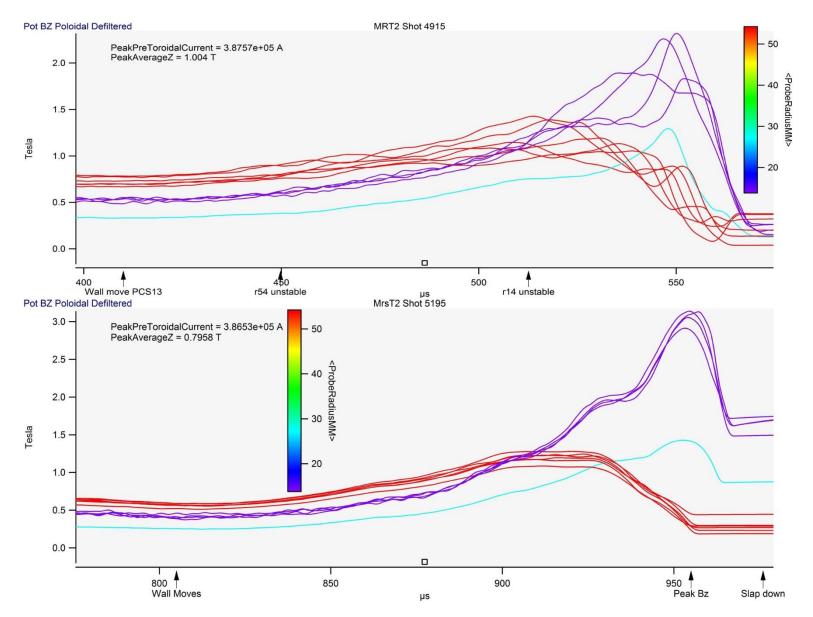




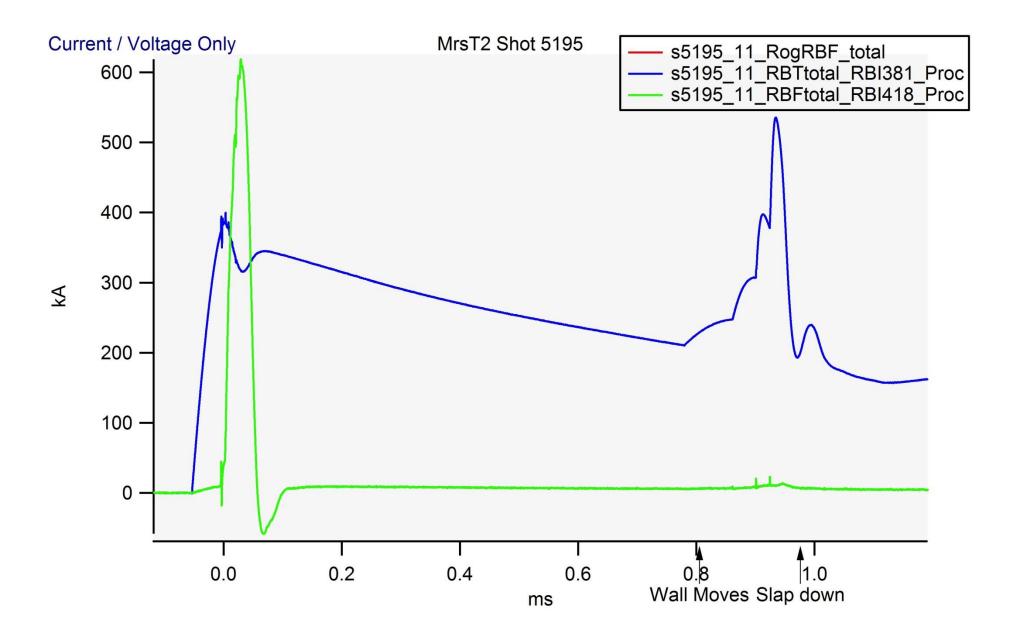
New Spherical Shape



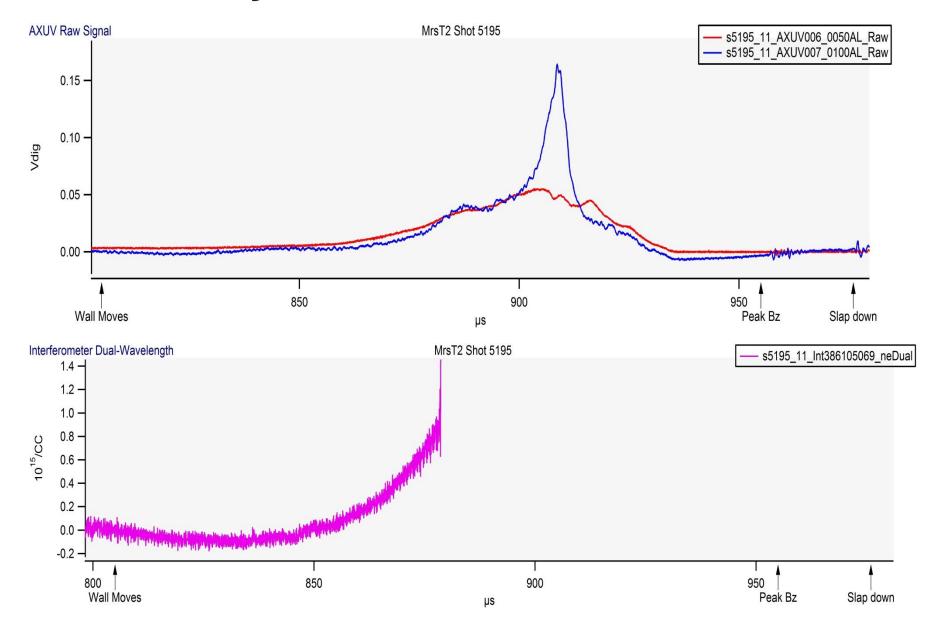
Magnetic Field During Compression



Shaft Current And Formation Current



X-Ray and Density



Conclusion

- We can make plasma with sufficient confinement before compression
- Radiation losses have been fixed and plasma stability is now maintained during compression
- There is some evidence of heating during compression in experiments so far
- Now aiming to get better heating and higher temperatures in future shots

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