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## Production of High Intensity, Highly Charged Ions – II

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## **Plasma Heating**

Modeling electron heating driven by microwaves

















































































## The future challenges

- Higher charge states required for heavy ions;
- Higher intensities are required for q/m > 0.3;
- Better brightness;
- Improved stability (1% or better);
- Metallic species reproducibility;
- High charge breeding efficiency;
- High absolute ionization efficiency;
- Improvements on magnets and generator technology;
- New heating schemes?