



The relation between GOLEM's parameter to the plasma

The 4th ASEAN School on Plasma and Nuclear Fusion 2018
At Chiang Mai University

Presented by Group 4

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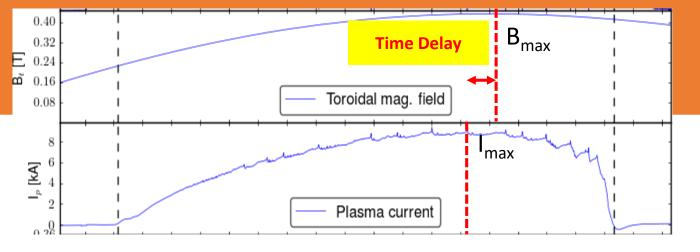
Outline

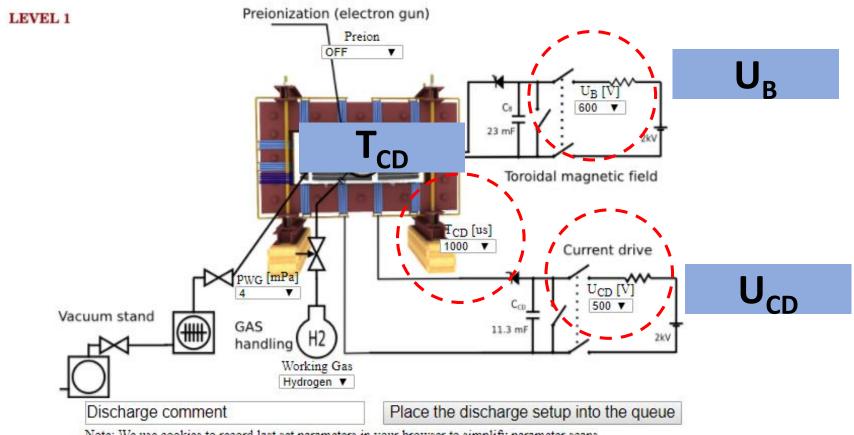
- Objectives
- Introduction
- Result & Discussion

Objectives

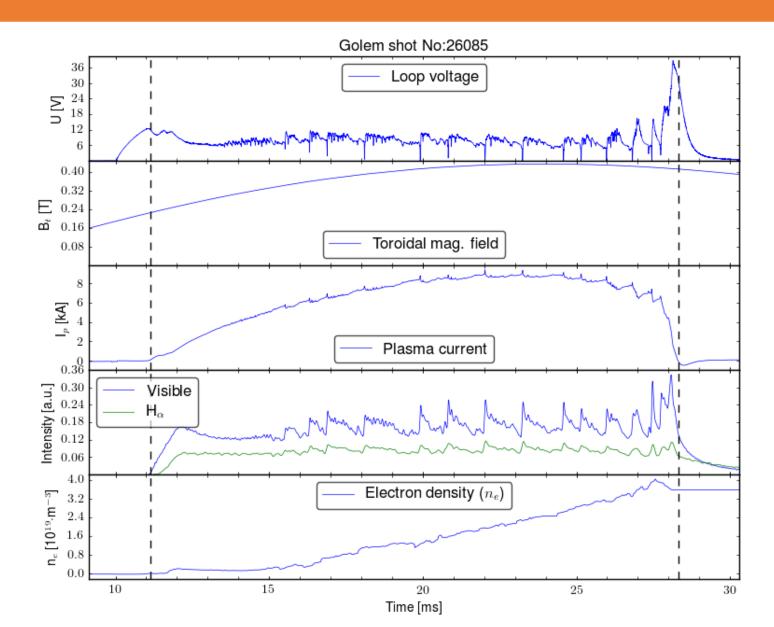
- To analyze how delayed time affect the confinement time.
- To analyze how adjustable voltages (U_{CD}) affect the confinement time,n_e and T_e.
- To analyze how adjustable voltages (U_B) affect the confinement time,n_e and T_e.

Introduction

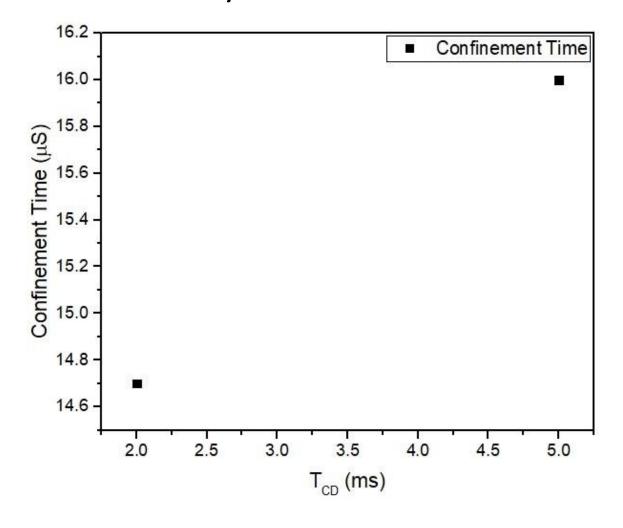


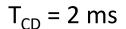


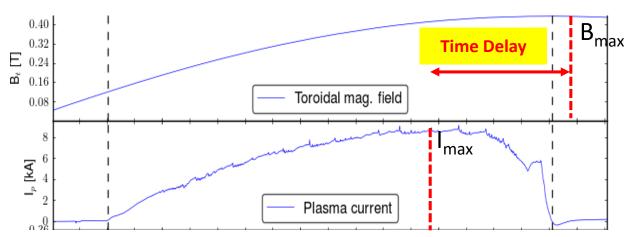
Note: We use cookies to record last set parameters in your browser to simplify parameter scans.

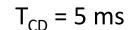


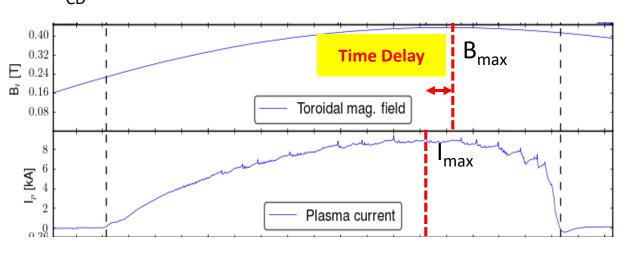
Time-Delay



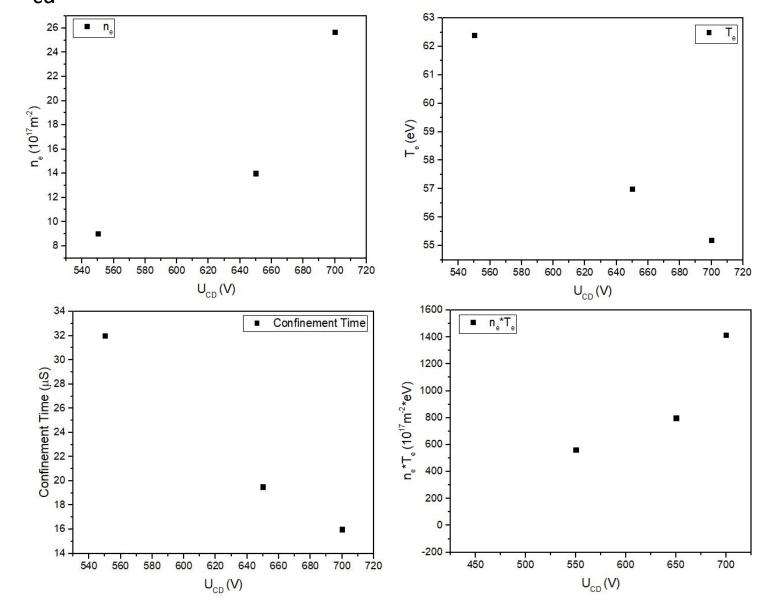








U_{cd} Current Drive



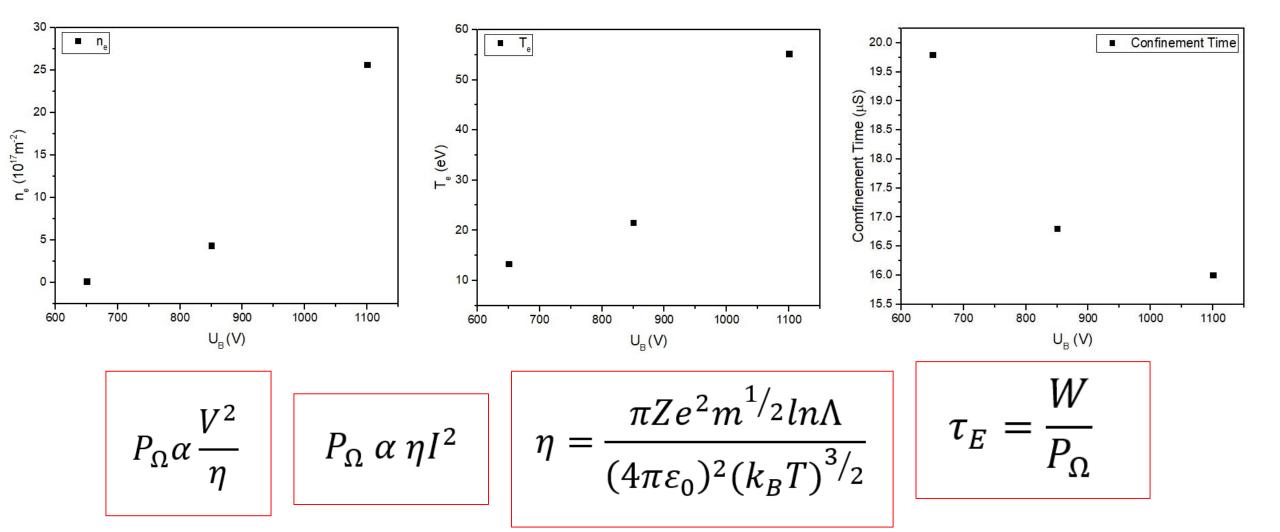
$$P_{\Omega} \alpha \frac{V^2}{\eta}$$

 $P_{\Omega} \alpha \eta I^2$

$$\eta = \frac{\pi Z e^2 m^{1/2} ln \Lambda}{(4\pi \varepsilon_0)^2 (k_B T)^{3/2}}$$

$$\tau_E = \frac{W}{P_{\Omega}}$$

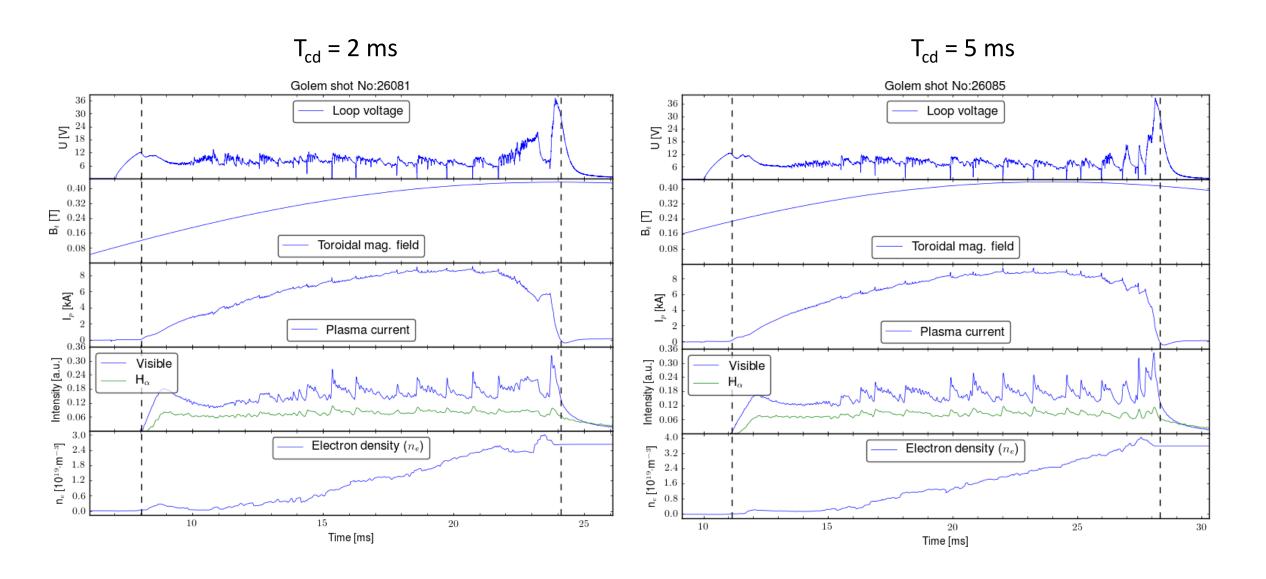
U_B Toroidal Magnetic Field



Thank you for your attention

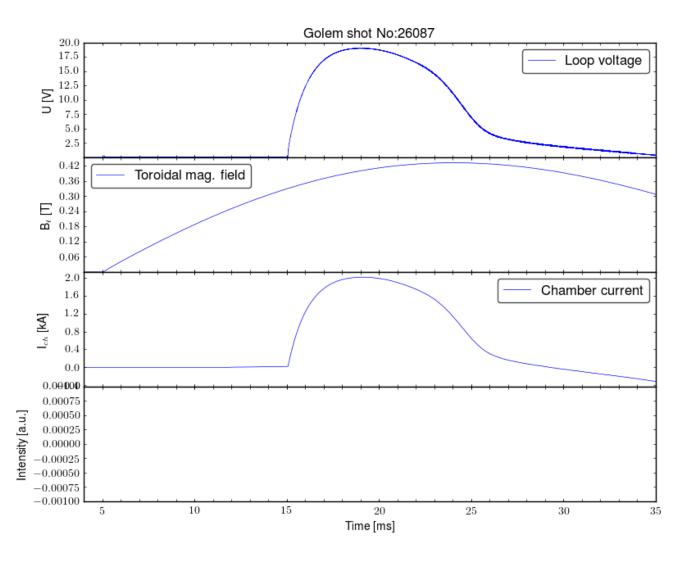
Q&A

Compared T_{cd}

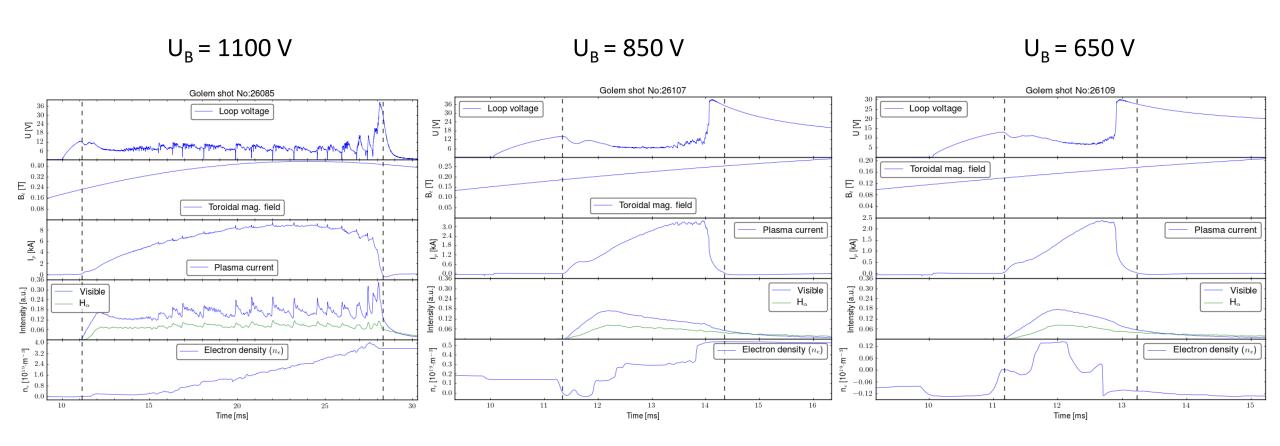


T_{cd} without plasma

 $T_{cd} = 10 \text{ ms}$



Compared U_B



Compared U_{cd}

