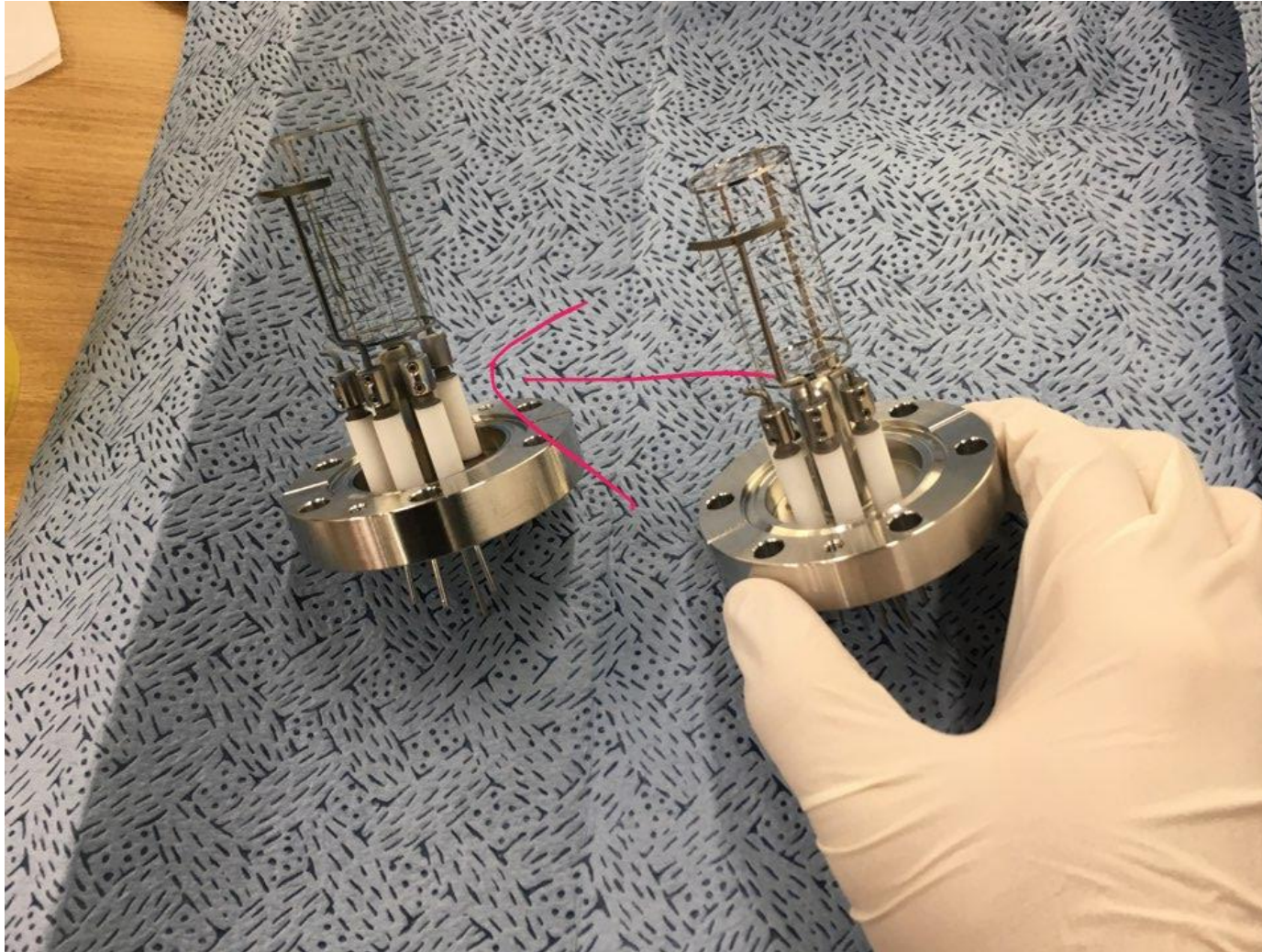


# Trap

Ion gauge Filament replacement  
& wave generator spec

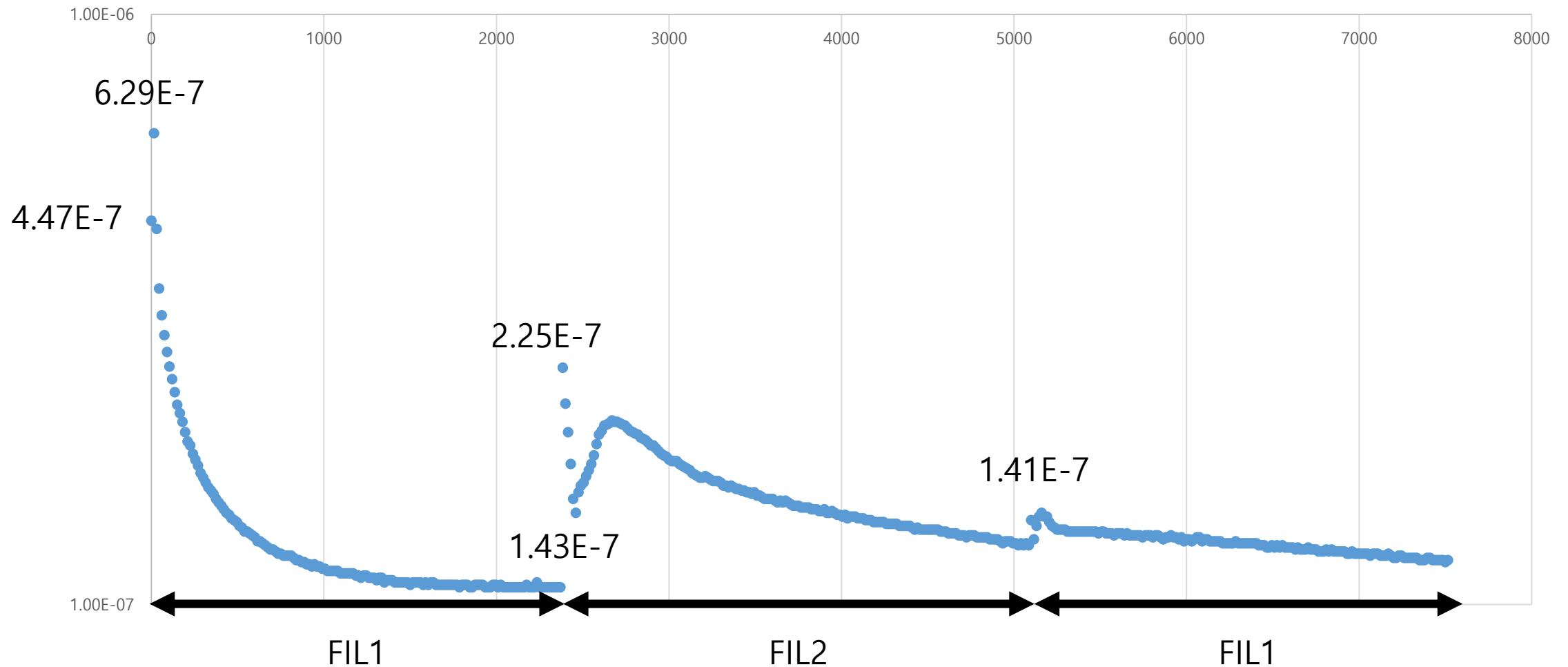
박관형

# Ion gauge filament

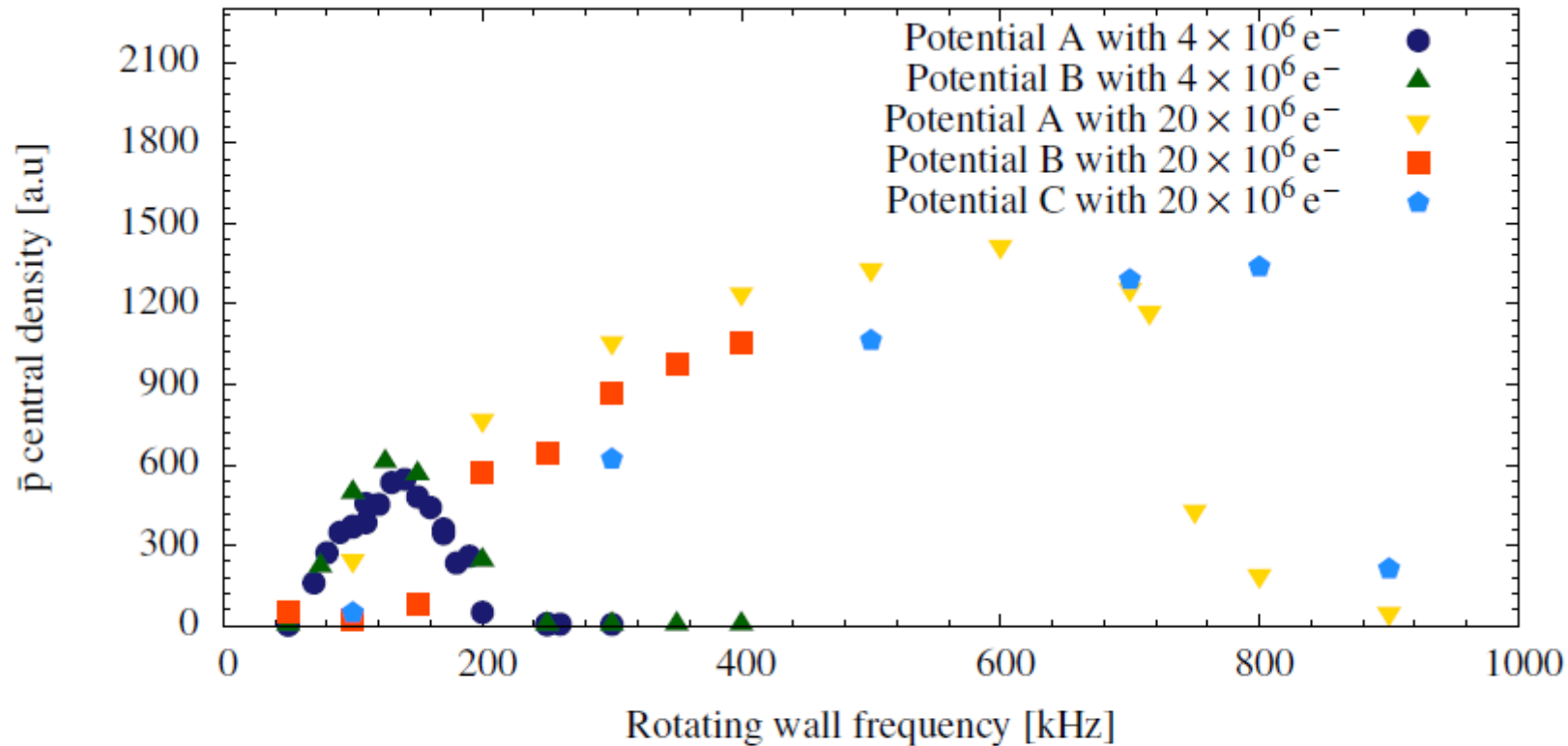


- Got Filaments from broken Ion gauge (replaced by 임은훈)
- On-Off the filament alternatively may harmful for UHV (임은훈)

# Ion gauge time evolution



# Rotating wall frequency

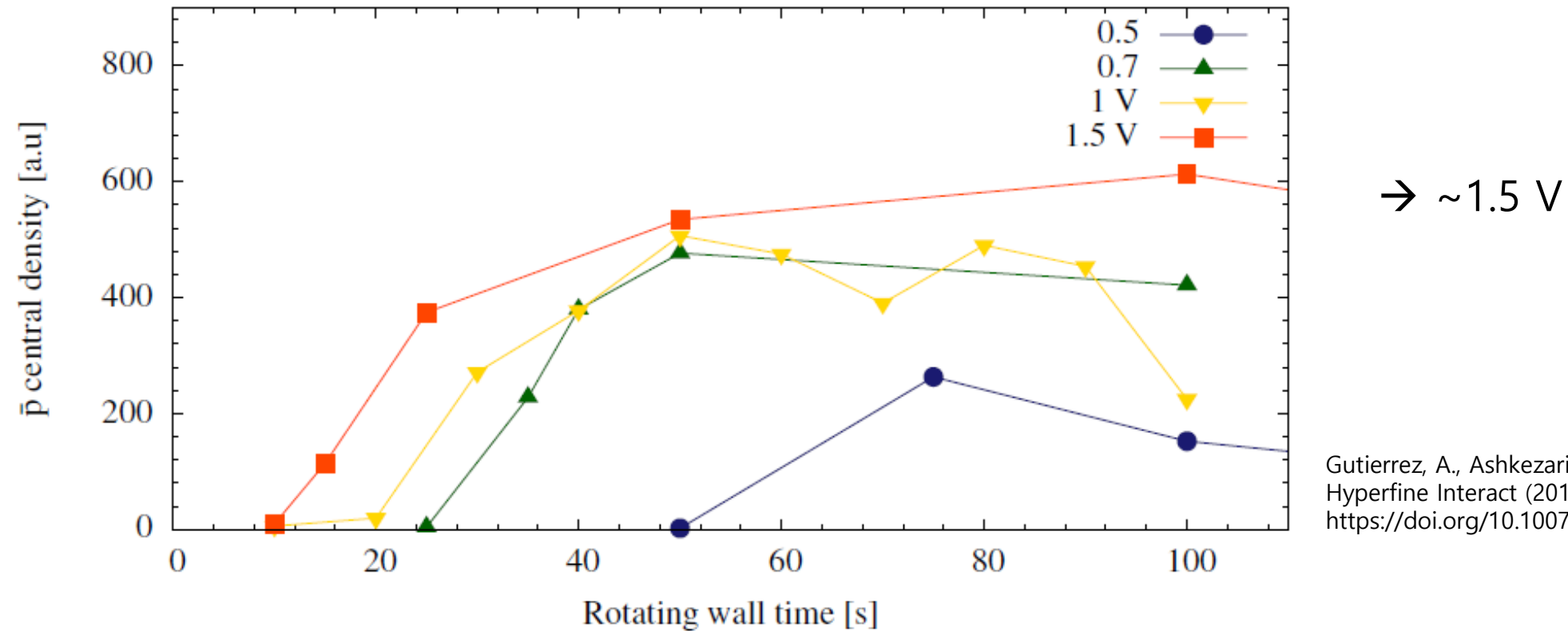


→ 50-750 kHz

Gutierrez, A., Ashkezari, M.D., Baquero-Ruiz, M. et al.  
Hyperfine Interact (2015) 235: 21.  
<https://doi.org/10.1007/s10751-015-1202-4>

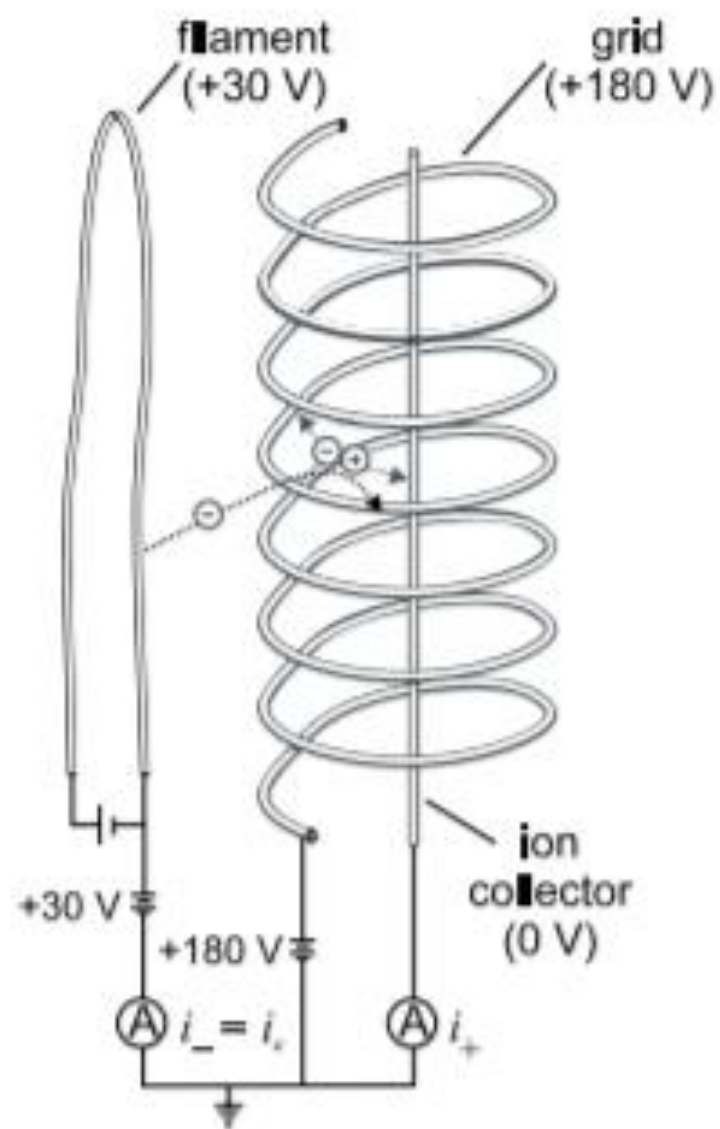
Figure 6.15: Antiproton cloud central density as a function of the rotating wall frequency when using different potential wells and electron numbers for cooling. For more information about the potentials, see table 6.2.

# Rotating wall Amplitude



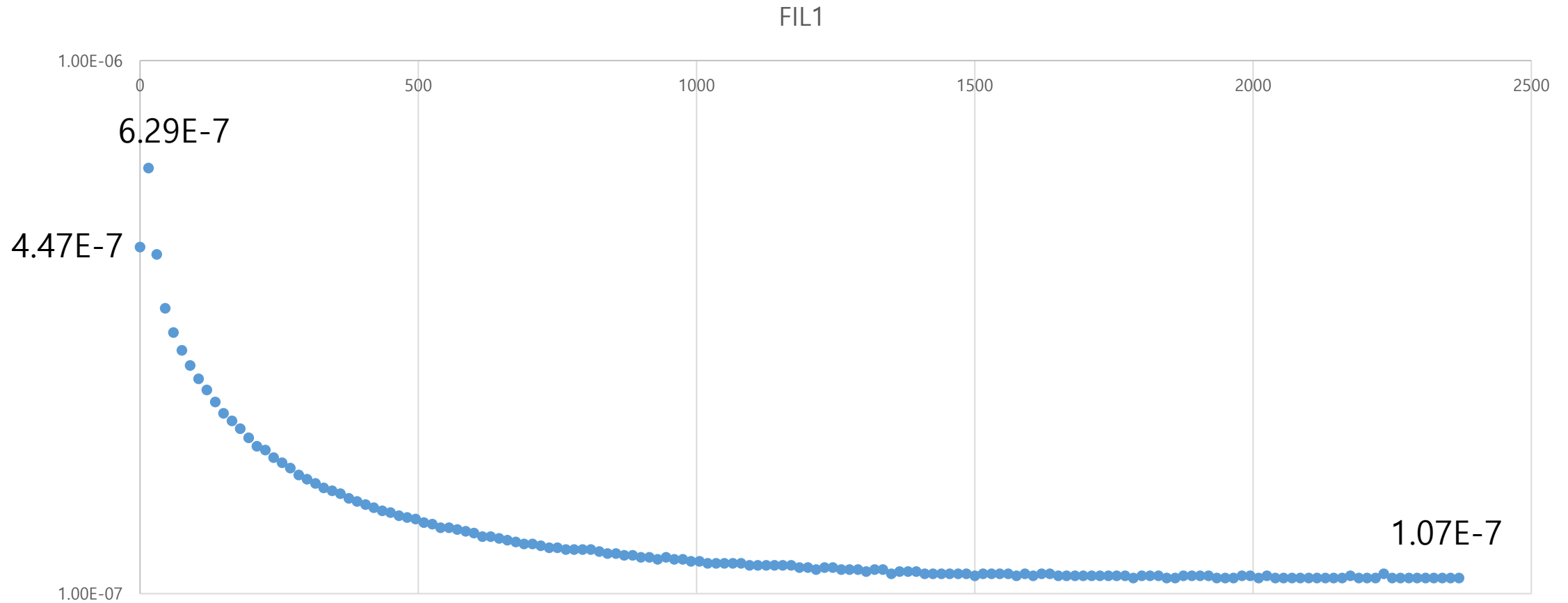
Gutierrez, A., Ashkezari, M.D., Baquero-Ruiz, M. et al.  
Hyperfine Interact (2015) 235: 21.  
<https://doi.org/10.1007/s10751-015-1202-4>

Figure 6.16: Antiproton cloud central density as a function of the rotating wall time for several voltages. The measurement was performed when cooling with  $4 \times 10^6$  electrons and at a frequency of 140 kHz.



Electrons are created by a hot filament and accelerated to the grid. The current is actively controlled by the electronics.

# Ion gauge time evolution



# Ion gauge time evolution

