

# Cockcroft-Walton Base Design

Charles Hyde

1 Sept 2016

# Gain stability

- HV up to 1000 V,
  - working on modifications to reach 1200-1500 V
- Gain Fluctuations pulse-pulse  $\leq 2\%$ 
  - 1 nC output pulse
- Gain Stability  $\leq 3\%$  up to 1MHz

# Multi-Channel Integration

- Concept for remote, multi-channel control
  - Control is via ribbon cable
  - Multi-channel not implemented

# Conclusions

- Working proof-of-principle
  - Some issues with choice of driving transformer to achieve higher than 1000V.
- Full production prototype not complete.
- More detailed report of recent results coming soon.