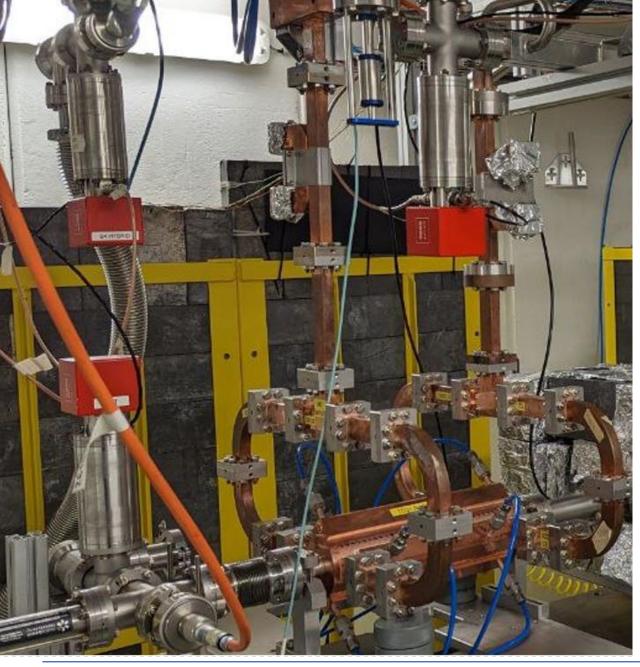


X-Box Summary



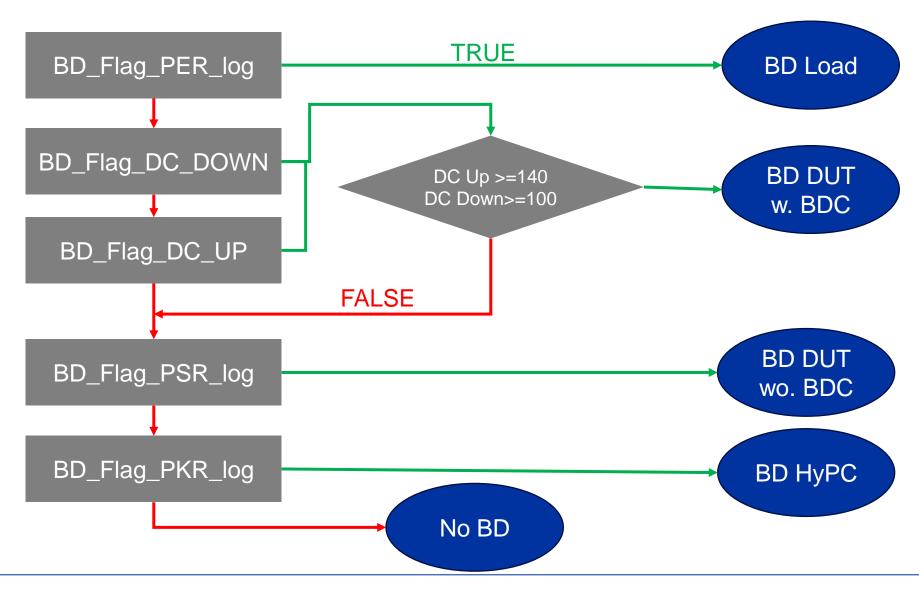
X-Box 2 TD31 N3 N4: Structure B

- Restarted 26.01.2024
- 100:1 ratio, all power to Structure B
- Starting power ~25 MW
- Pulse width 50ns
- Running flat 44MW



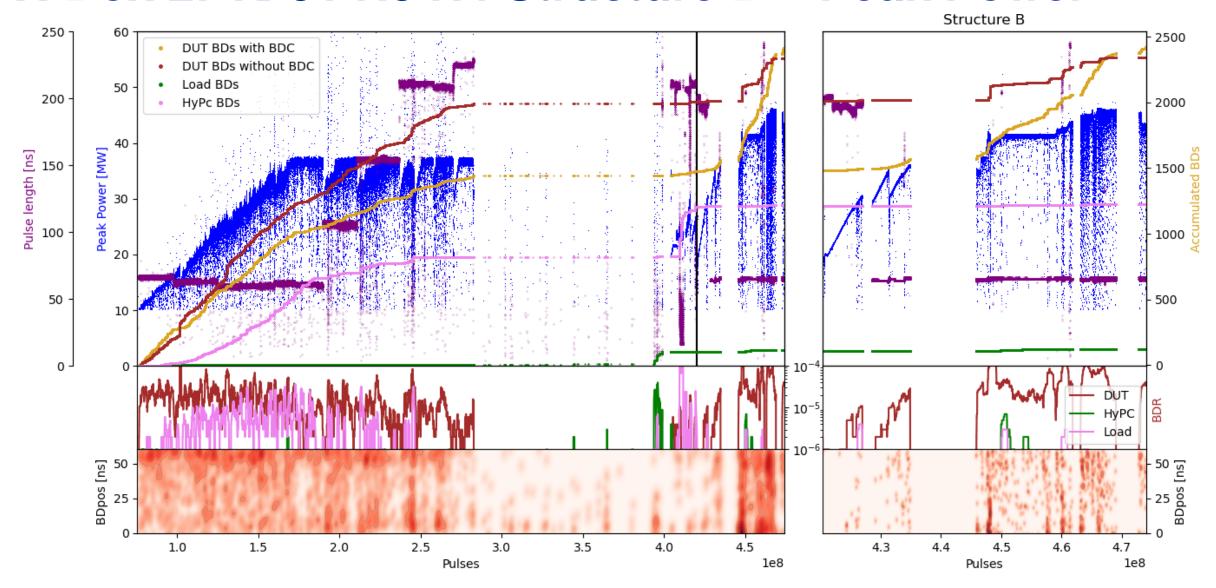
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X-Box 2: Reminder on BD classification





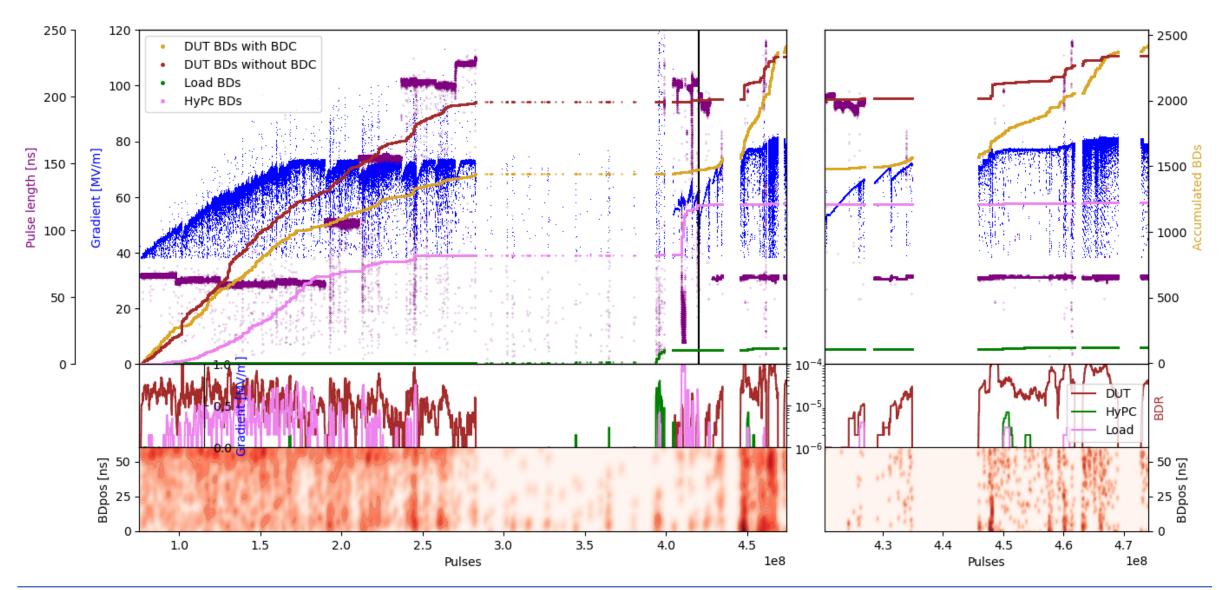
X-Box 2: TD31 N3 N4 Structure B – Peak Power





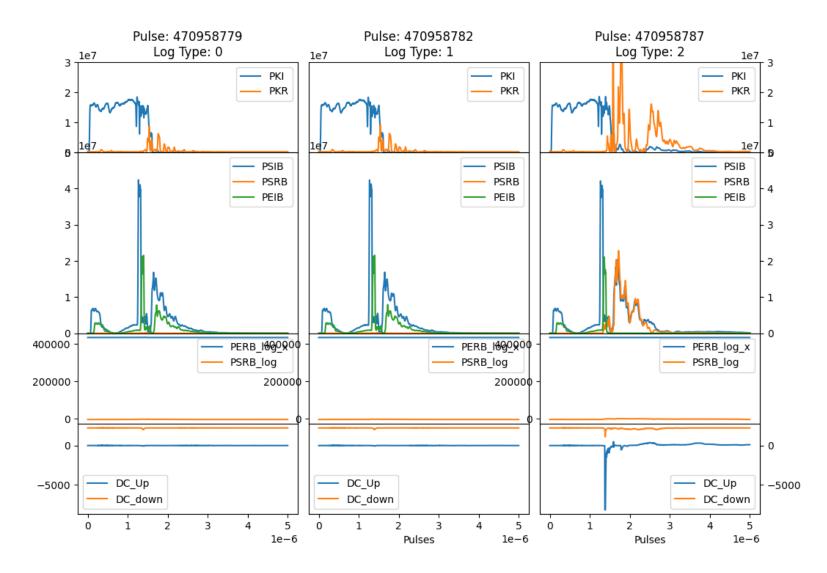
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X-Box 2: TD31 N3 N4 Structure B – Gradient



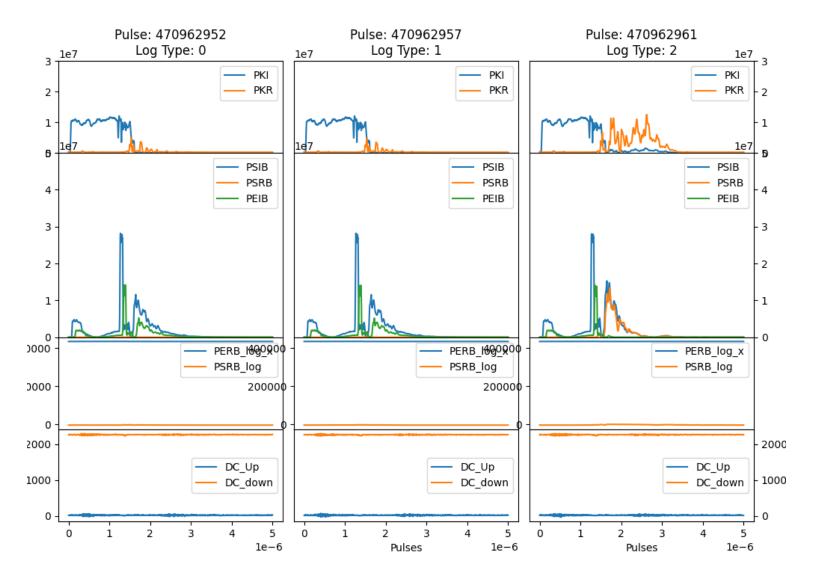


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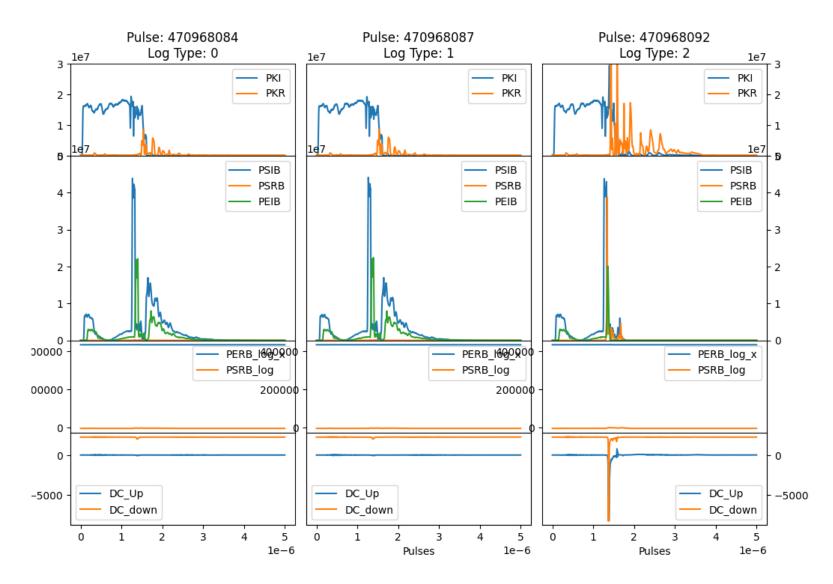


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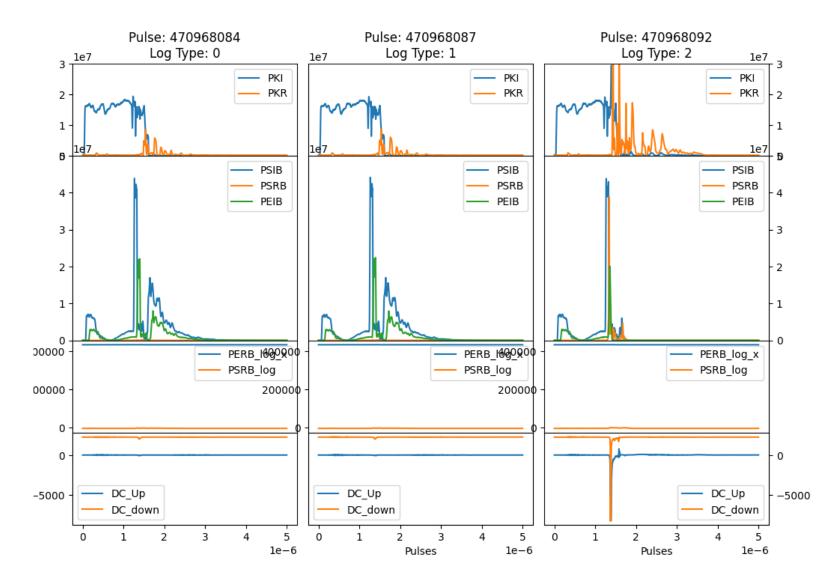


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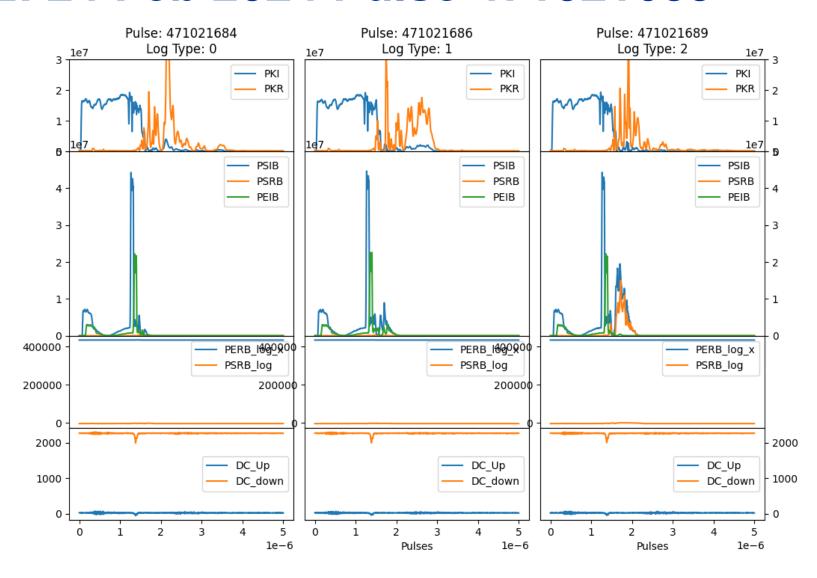


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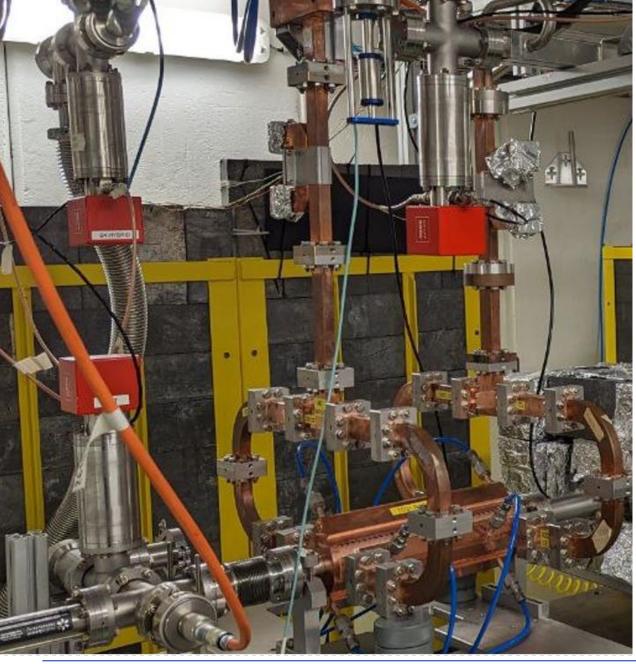


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X-Box 2: Planning week 4-8 March 2024

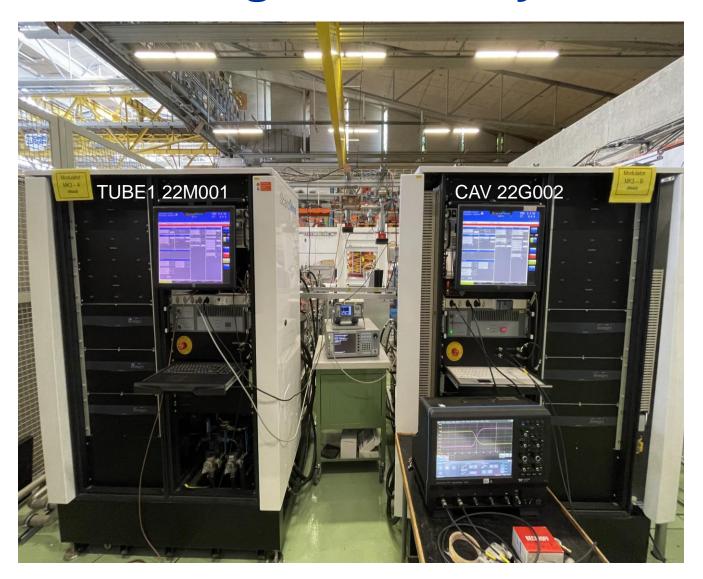
Experiment at Xbox2

- Demonstration of operation mode using leading edge of modulator to amplify RF pulse (Ping simulations)
- Study on the dependency of the pulse ripple versus phase rising time



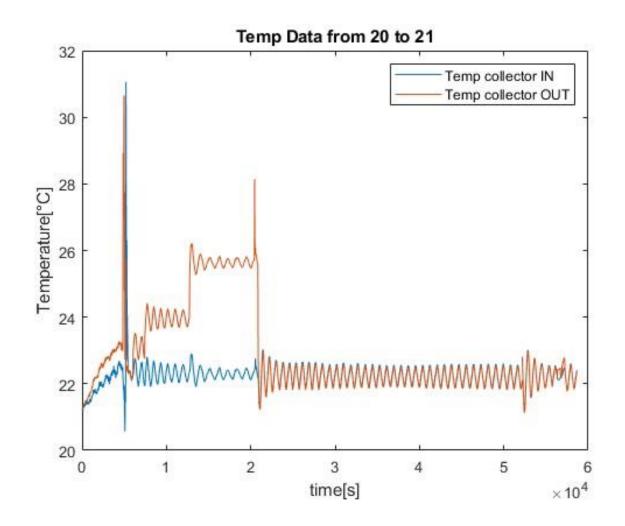
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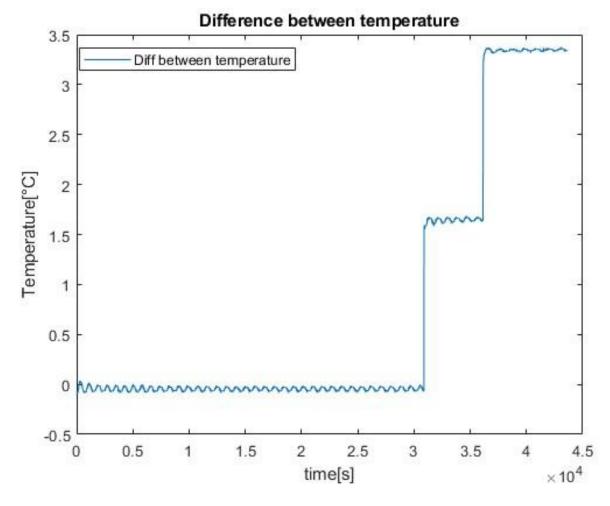
X-Box 3: High Efficiency Tubes Characterisation



- New campaign based on calorimetry
 - Temperature sensors are installed
 - Still waiting for installation of flow meters (fittings)
- Uncertainty sources in collector calorimetry
 - Variations in temperature due to slow response of water station
 - Variations in water flow
 - Accuracy of the surface sensors
 - May improve with PT1000 probes

X-Box 3 HEK: Collector calorimetry

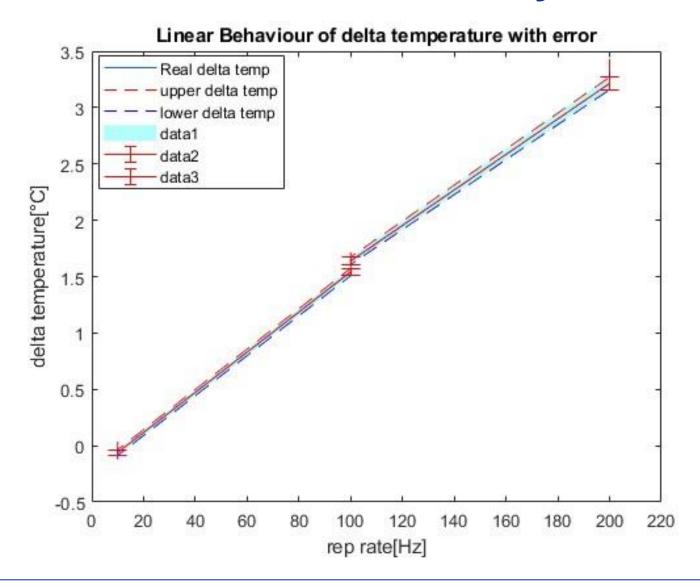






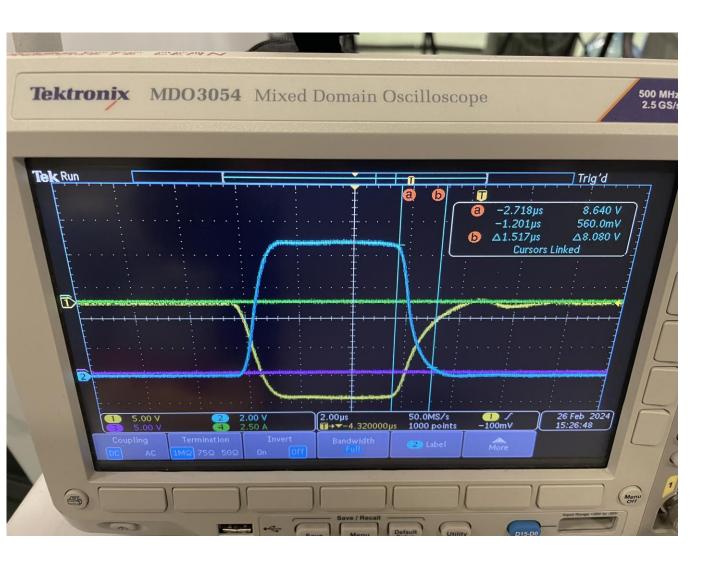
Paz Alonso-Arias | X-Box Update 28 February 2024

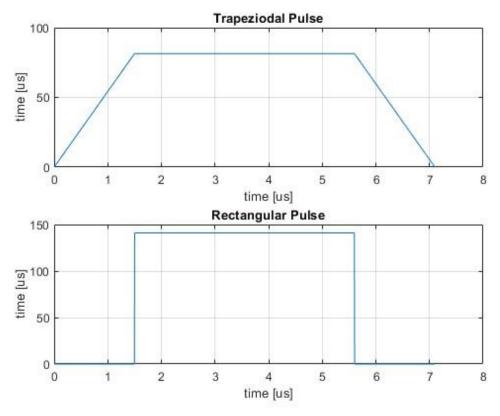
X-Box 3 HEK: Collector calorimetry





X-Box 3 HEK: Collector calorimetry





Meas. peak power (calorimetry) 10.801MW Meas. beam current (scope) 81.2A Calculated uPe=1.67





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