



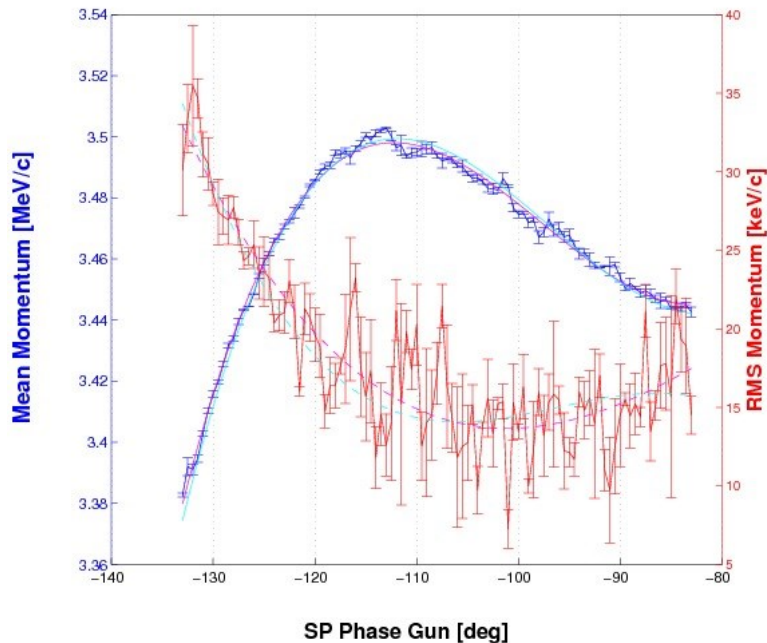
# Stable beam energy modulation observed in LEDA → MBI?

**Measured at: LEDA**

$\langle p \rangle_{\max} = (3.50297 \pm 0.00017) \text{ MeV/c at } -113^\circ$

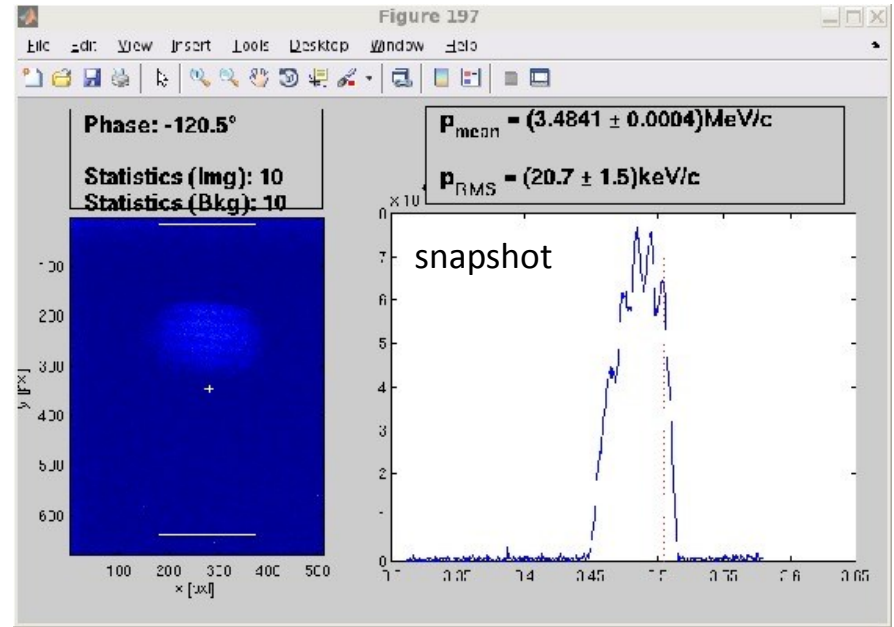
$p_{\text{RMS}} = (7.3 \pm 1.2) \text{ keV/c at } -101^\circ$

$I_{\text{main}} = 247.8 \text{ A}$   
 $I_{\text{dip}} = -0.8793 \text{ A}$   
 Stats:  $\text{Img(Bkg)}: 10(10)$   
 30 pulses  
 LT = 2%  
 SP-Pforw = 25.8  
 Power = 1.38 MW  
 Reflection = 31%

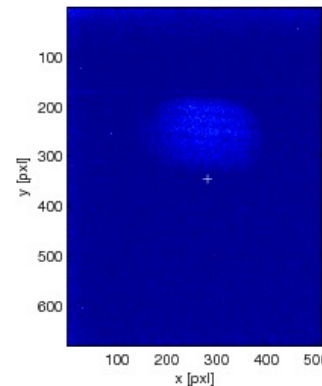


OMA\_2016\_07\_04\_t09\_20\_25\_SCANure/LongPhSp/2016/Momentum/20160704M R2015 v2.1

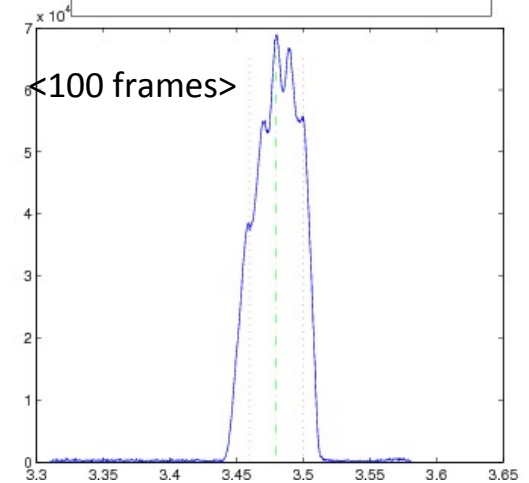
- 1.55 MWg
- 650 us
- FB=ON
- Does not depend on NoP (intensity only)
- LT increase → higher charge → disappears



Phase:  $-121^\circ$   
 Statistics (Img): 100  
 Statistics (Bkg): 50



$p_{\text{mean}} = (3.480 \pm 0.001) \text{ MeV/c}$   
 $p_{\text{RMS}} = (20.0 \pm 1.9) \text{ keV/c}$



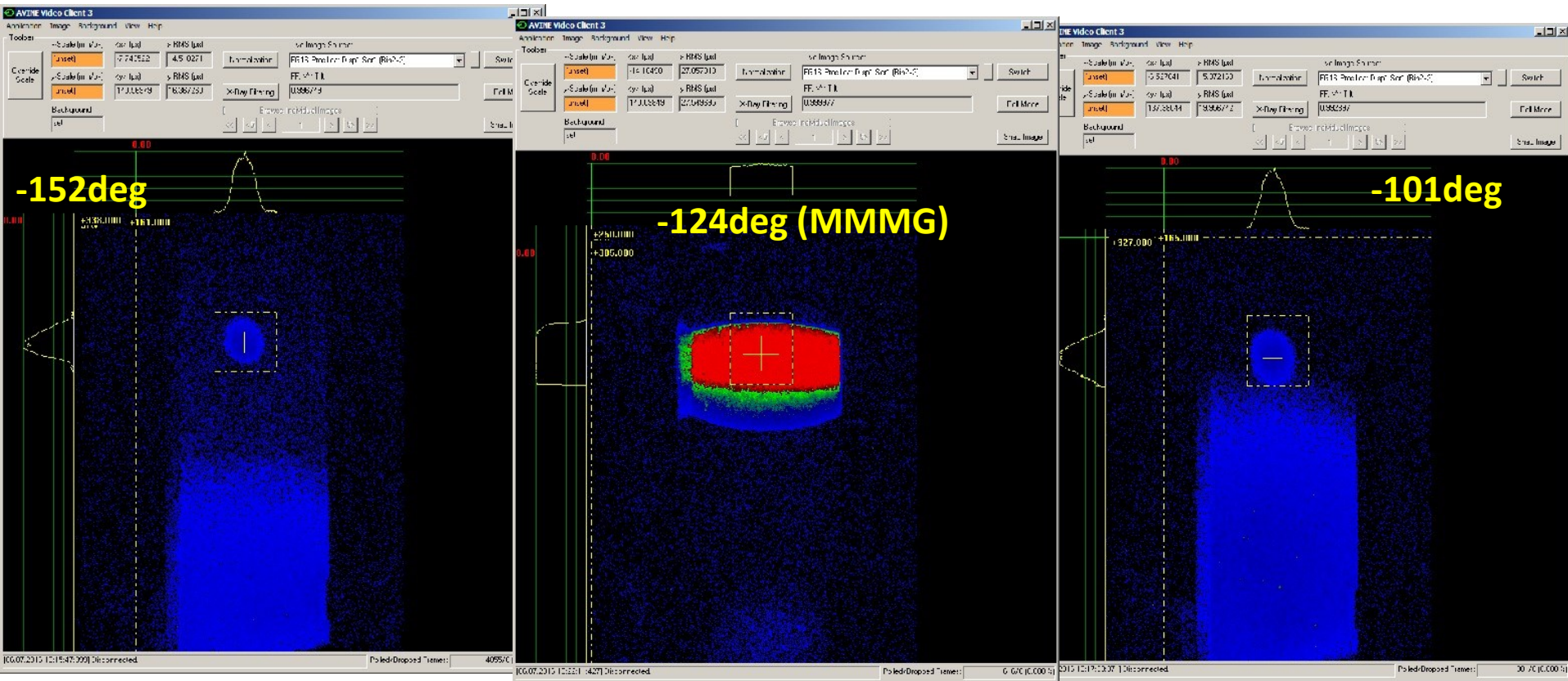






# E-beam momentum distribution in LEDA

LEDA, 5MWg, BSA=1.2mm; 500pC, no booster



Found 2 satellites in LEDA with 51deg difference

- No difference for reduction of the laser diode pump current
- Origin?
- Next steps?