









Comparison CLIC - CTF3				
		CTF3	CLIC	
	Energy	0.150 GeV	2.4 GeV	
	Pulse length	1.2 µs	140 µ s	
	Multiplication factor	$2 \ge 4 = 8 (DL + 1 CR)$	$2 \ge 3 \ge 4 = 24 (DL + 2 CR)$	
	Linac current	3.5 A	4.2 A	
	Final current	28 A	100 A	
	RF frequency	3 GHz	1 GHz	
	Deceleration	to ~50% energy	to 10% energy	
	Repetition rate	up to 5 Hz	50 Hz	
	Energy per beam pulse	0.7 kJ	1400 kJ	
	Average beam power	3.4 kW	70 MW	
• CTF3 covers well the CLIC drive beam generation scheme				
• Still considerable extrapolation to CLIC parameters => WG5 - Thu				
• Especially total beam power (loss management, machine protection)				
Frank Tecker Progress in CTF3 CLIC09 Workshop, 13.10.2009				









![](_page_5_Figure_1.jpeg)

![](_page_5_Figure_2.jpeg)

![](_page_6_Figure_1.jpeg)

![](_page_6_Figure_2.jpeg)

![](_page_7_Figure_1.jpeg)

![](_page_7_Picture_2.jpeg)

![](_page_8_Figure_1.jpeg)

![](_page_8_Figure_2.jpeg)

![](_page_9_Figure_1.jpeg)

![](_page_9_Figure_2.jpeg)

![](_page_10_Figure_1.jpeg)

![](_page_10_Figure_2.jpeg)

![](_page_11_Figure_1.jpeg)

![](_page_11_Figure_2.jpeg)

![](_page_12_Picture_1.jpeg)

![](_page_12_Figure_2.jpeg)

![](_page_13_Figure_1.jpeg)

![](_page_13_Picture_2.jpeg)

![](_page_14_Figure_1.jpeg)

![](_page_14_Picture_2.jpeg)

![](_page_15_Figure_1.jpeg)