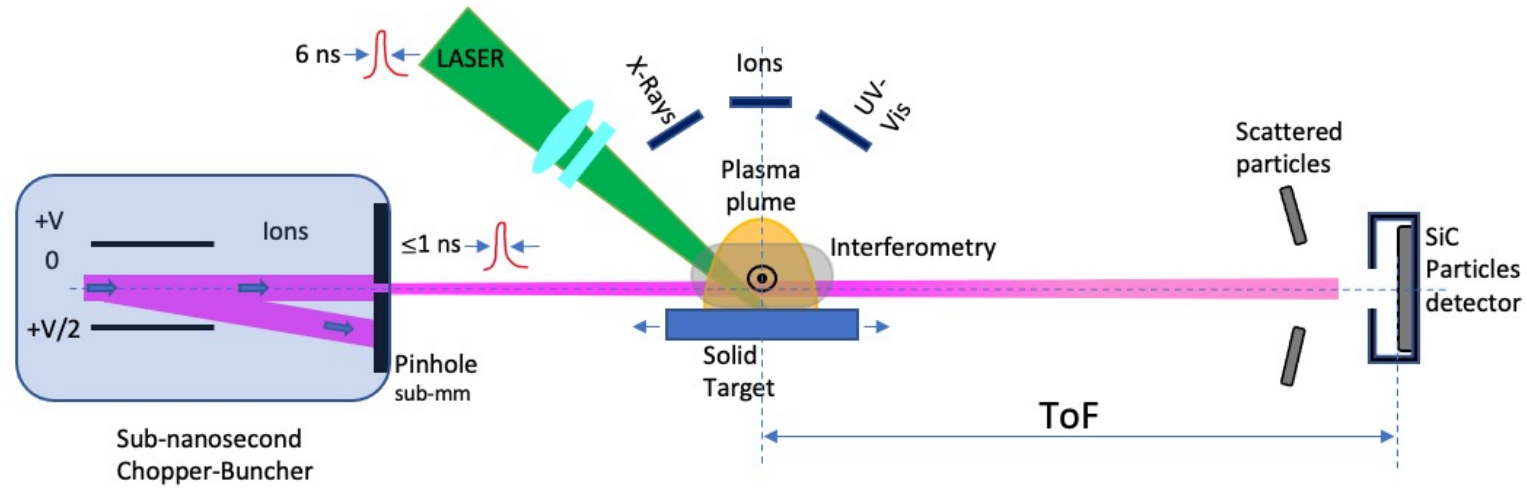


# WP2: Ions energy loss and Stopping Power in plasmas



**T2.1 - Ions Bunching**

**T2.2 - Plasma Target systems**

**T2.3 - DAQ and Slow/Fast controls**

# WP2

## Milestones and deliverables

Milestones	Deliverables	DL Responsible Unit	Month
<b>M1</b>	Design procurement and construction of Ions Bunching and plasma targets system		T0+12 M
	<i>D1</i> technical report		
<b>M2</b>	Installation and first operative test of experimental set-up		T0+24 M
	<i>D2</i> Activity report		
<b>M3</b>	Experimental campaigns and results		T0+36 M
	<i>D3</i> Activity report		

# WP2

## WP2:Ions energy loss and Stopping Power in plasmas

Cost Category	Item	comprensivi di IVA			GROUP/INFN Section	WP	Total
		I anno	II anno	III anno			
Consumables	Materials	€ 2,000.00			INFN-CT	2	
	Materials for Chopper R&D	€ 16,000.00			INFN-CT	2	
	Ottiche (F. Consoli)	€ 1,500.00			LNF	4	
	Targhets Test Laser ???						
	Manutenzione Laser ?						
	Lampada di ricambio ?						
	Progettazione sistema removibile interno alla camera di scattering ?						
	Supporti da banco ottico (100+iva) (G.Lanzalone et F.Odorici)	€ 122.00				2	
	Ottiche di linea e focheggiamento (500+iva) (G.Lanzalone et F.Odorici)	€ 610.00				2	
			€ 2,000.00	€ 2,000.00			
Instrumentation	CCD (F. Consoli)	€ 1,500.00			LNF	4	
	N° 2 celle di Pockels (F. Consoli)	€ 6,000.00			LNF	4	
	prima di wallastone (F. Consoli)	€ 7,000.00			LNF	4	
	High-Voltage High-Speed pulse generator (F. Consoli)	€ 5,000.00			INFN-FI	4	
	MOVIMENTAZIONE TARGET: n.2 100 mm Motorized Linear Translation Stage, Stepper Motor (assi XY); n.1 Two-Channel Benchtop Stepper Motor Controller (assi XY); n. 2 cavo collegamento aria-controller; n. 1 25 mm (0.98") Motorized Translation Stage Bundled with Controller and Power Supply (asse Z); n.1 cavo collegamento aria-controller; n.1. staffa angolare 90 gradi;(9772+iva) (G.Lanzalone et F.Odorici)	€ 11,922.00			LNS	2	
	Laser Beam profiler with larger sensing area (6050 + iva) (G.Lanzalone et F.Odorici)		€ 7,381.00		LNS	2	
	Sensore laser CCD a triangolazione per misura di spostamento senza contatto diodo laser 670nm, visibile; controller integrato; campo di misura 20 mm, distanza di lavoro 50 mm; cavo integrato con connettore; uscite 4-20 mA / 0...10 V / RS422; Cavo di alimentazione e uscita di 10 m (3221+iva) (G.Lanzalone et F.Odorici)	€ 3,929.00			LNS	2	
	BEAM ENERGY MONITOR. Beam Sampler diam. 2" ; Pyroelectric Energy Sensor, Ceramic Coating, 0.185 - 25 µm, 15 J, diam. 2"; Power and Energy Meter Interface with USB Operation. (2376+iva) (G.Lanzalone et F.Odorici)	€ 2,899.00			LNS	2	
Travels		€ 1,500.00			INFN-CT		
		€ 2,000.00			LNS		
		€ 2,000.00			INFN-Bo		
					LNGS		
			€ 3,000.00	€ 3,000.00			

# WP2

- Final definition of WP3 description into proposal (1200 chars. Too few!!!)
- Offers for 2023 requests
- Agreement on MLs and DLs and on responsibility
- Endorsement letters UniCT-DFA in preparation