

Meeting NIS4PIC Progress on Particle-based Models for Negative Ion Sources

2017 March 1st CNR-Research Area Bari

via Amendola 122/D Bari Access A, Meeting room – 5th floor

Program

Time	Speaker	Title	Session
09:00 -	Jacques Lettry	Measurement available on H- and D- beams	Benchmark
09:20	CERN		with
09:20 -	Pierluigi Veltri	Comparison of PIC model vs probe measurements in the NIO1	experiments
09:40	INFN	source plasma volume	
09:40 -	Roberto Celiberto	Electron-induced cross sections for H ₂ and D ₂	Input
10:00	PoliBA		database for
10:00 -	Maria Rutigliano	Hydrogen scattering from Caesiated surface model:	PIC
10:20	CNR-Nanotec	preliminary results	
10:20 -	Savino Longo	Molecular dynamics of Cs atoms and Cs monolayer on Mo001	
10:40	UniBA	surface	
10:40 – 11:00 Coffe break			
11:00 -	Gwenael Fubiani	Extraction of negative ions, scaling laws and onset of the	Extraction
11:30	CNRS-LAPLACE	aberrations: insight from lower density calculations	models
11:30 -	Dirk Wunderlich	Pseudo 1D model	
12:00	IPP-MPG		
12:00 -	Emanuele Sartori	First results of 3D extraction PIC model with GPU	
12:30	RFX		
12:30 – 15	12:30 – 15:00 Lunch		
15:00 -	Adrien Revel	Latest results of ONIX	
15:30	IPP-MPG		
15:30 -	Shu Nishioka	Latest results on 3D extraction PIC model	
16:00	Keio University		
16:00 -	Stefano Mattei	Plasma heating code NINJA	Full source
16:30	EPFL		models
16:30 – 17:00 Coffe break			
17:00 -	Gwenael Fubiani	Extraction of negative ions versus the bias voltage and beamlet	
17:30	CNRS-LAPLACE	asymmetry: model of the entire ion source in 2D	
17:30 -	Francesco Taccogna	2.5D full source model MINUS: first results	
18:00	CNR-Nanotec		
18:00 -	All	Discussion on future works	
18:30			