



FTU Experimental campaign 2014 - C2

Period: 11/11/2014 – 19/12/2014 (updated 24/11/2014)

<u>Program</u>		<u>Scientific Coordinator</u>
WP CLL	Liquid metal as Plasma Facing Component	G. Mazzitelli
WP EFR	Erosion and fuel retention experiments	G. Maddaluno
WP RE	Runaway generation and control in FTU	B. Esposito
ER CTS	Parametric decay instability	A. Bruschi
ER DL	Density Limit Studies	G. Pucella
ER MR	Magnetic Reconnection	P. Buratti

Programs – FTU 2014 C2



M06 FTU – Hmode (G. Ramogida, G. Calabrò)	WP_CLL		G. Mazzitelli
M20 Thermal loads on the LLL (G. Mazzitelli, M. L. Apicella)	WP_CLL		
M21 Long pulses (G. Mazzitelli, M. L. Apicella)	WP_CLL		
P03 D retention in W exposed to high particle fluxes (G. Maddaluno, G. Apruzzese)	WP_EFR		G. Maddaluno
M07 Threshold electric field for runaway electron generation (B. Esposito, D. Carnevale)	WP_RE		B. Esposito
M08 Runaway electron control with new feedback strategies (D. Carnevale, B. Esposito)	WP_RE		
M12 Collective Thomson Scattering (W. Bin, A. Bruschi)	ER_CTS		A. Bruschi
M04a Density limit for low toroidal fields and plasma currents (G. Pucella, O. Tudisco)	ER_DL		G. Pucella
M04b Density limit with pellet injection (G. Pucella, O. Tudisco)	ER_DL		
M15 ECRH on the magnetic island near the density limit (G. Pucella, G. Granucci)	ER_DL		
M03 MHD limit cycles near the density limit (G. Pucella, P. Buratti)	ER_MR		P. Buratti

Experimental campaign 2014 C2



W 46	11/11	Restart	Restart
	12/11	Restart	Restart
	13/11	WP CLL	WP CLL
	14/11	ER DL	ER DL
W 47	18/11	No operation	No operation
	19/11	WP RE	WP RE
	20/11	ER MR	ER MR
	21/11	WP CLL	No operation
W 48	25/11	ER DL	ER MR
	26/11	WP RE	WP RE
	27/11	ER CTS	ER CTS
	28/11	WP RE	WP RE
W 49	02/12	WP EFR	WP EFR
	03/12	ER CTS	ER CTS
	04/12	WP RE	WP RE
	05/12	WP EFR	WP EFR
W 50	09/12	No operation	WP CLL
	10/12	ER CTS	ER CTS
	11/12	WP CLL	WP CLL
	12/12	WP CLL	WP CLL
W 51	16/12	ER DL	ER DL
	17/12	ER MR	ER MR
	18/12	ER DL	ER DL
	19/12	WP CLL	WP CLL

Monday	no operation
Tuesday	08:00 – 19:00
Wednesday	08:00 – 19:00
Thursday	08:00 – 19:00
Friday	08:00 – 17:15

FTU – 2014 – C2 – week 46



Topic	EC 1 EC 2 RdO 1 RdO 2 PIC 1 PIC 2	EC	LH	Inj	Experiment 1 Experiment 2	Date Shots
R R	G. Granucci G. Granucci G. Granucci G. Granucci F. Causa P. Buratti	Y Y	--- ---	Ar Ar	Restart Restart	11/11/2014 Tuesday 38768 – 38781
R R	G. Granucci G. Granucci G. Calabrò W. Bin F. Causa P. Buratti	Y Y	--- ---	Ar Ar	Restart Restart	12/11/2014 Wednesday 38782 – 38809
WP CLL WP CLL	G. Mazzitelli G. Mazzitelli G. Ramogida A. Romano F. Causa P. Buratti	--- ---	--- ---	--- ---	Liquid metal as Plasma Facing Component Liquid metal as Plasma Facing Component	13/11/2014 Thursday 38810 – 38834
ER DL ER DL	G. Pucella G. Pucella F. Belli V. Cocilovo V. Fusco C. Di Troia	--- ---	--- ---	p p	Density Limit Studies Density Limit Studies	14/11/2014 Friday 38835 – 38857

FTU – 2014 – C2 – week 47



Topic	EC 1 EC 2 RdO 1 RdO 2 PIC 1 PIC 2	EC	LH	Inj	Experiment 1 Experiment 2	Date Shots
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WP RE WP RE	B. Esposito B. Esposito W. Bin G. Ramogida O.D'Arcangelo O.D'Arcangelo	---	---	Ar Ar	Runaway generation and control Runaway generation and control	19/11/2014 Wednesday 38858 – 38879
ER MR ER MR	P. Buratti P. Buratti A. Romano V. Cocilovo G. Pucella G. Pucella	---	---	---	Magnetic Reconnection Magnetic Reconnection	20/11/2014 Thursday 38880 – 38898
WP CLL ---	G. Mazzitelli --- G. Calabrò F. Belli G. Apruzzese ---	---	---	---	Liquid metal as Plasma Facing Component No operation	21/11/2014 Friday 38899 – 38907

FTU – 2014 – C2 – week 48



Topic	EC 1 EC 2 RdO 1 RdO 2 PIC 1 PIC 2	EC	LH	Inj	Experiment 1 Experiment 2	Date Shots
ER DL ER MR	G. Pucella P. Buratti G. Calabrò B. Esposito P. Buratti G. Pucella	--- ---	--- ---	p ---	Density Limit Studies Magnetic Reconnection	25/11/2014 Tuesday
WP RE WP RE	B. Esposito B. Esposito G. Granucci W. Bin C. Castaldo C. Castaldo	Y Y	--- ---	Ar Ar	Runaway generation and control Runaway generation and control	26/11/2014 Wednesday
ER CTS ER CTS	A. Bruschi A. Bruschi D. Marocco G. Granucci O.D'Arcangelo O.D'Arcangelo	Y Y	--- ---	Ar Ar	Parametric decay instability Parametric decay instability	27/11/2014 Thursday
WP RE WP RE	B. Esposito B. Esposito G. Ramogida V. Cocilovo G. Apruzzese G. Apruzzese	--- ---	--- ---	Ar Ar	Runaway generation and control Runaway generation and control	28/11/2014 Friday

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Topic	EC 1 EC 2 RdO 1 RdO 2 PIC 1 PIC 2	EC	LH	Inj	Experiment 1 Experiment 2	Date Shots
ER EFR ER EFR	G. Maddaluno G. Maddaluno A. Romano F. Belli --- ---	--- ---	--- ---	--- ---	Erosion and fuel retention experiments Erosion and fuel retention experiments	02/12/2014 Tuesday
ER CTS ER CTS	A. Bruschi A. Bruschi V. Cocilovo G. Granucci --- ---	Y Y	--- ---	Ar Ar	Parametric decay instability Parametric decay instability	03/12/2014 Wednesday
WP RE WP RE	B. Esposito B. Esposito D. Marocco B. Esposito --- ---	Y Y	--- ---	--- ---	Runaway generation and control Runaway generation and control	04/12/2014 Thursday
WP EFR WP EFR	G. Maddaluno G. Maddaluno G. Calabrò W. Bin --- ---	--- ---	--- ---	--- ---	Erosion and fuel retention experiments Erosion and fuel retention experiments	05/12/2014 Friday

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Topic	EC 1 EC 2 RdO 1 RdO 2 PIC 1 PIC 2	EC	LH	Inj	Experiment 1 Experiment 2	Date Shots
--- WP CLL	--- G. Mazzitelli --- --- ---	--- --- ---	--- --- ---	--- --- ---	No operation Liquid metal as Plasma Facing Component	09/12/2014 Tuesday
ER CTS ER CTS	A. Bruschi A. Bruschi --- --- ---	--- --- ---	--- --- ---	--- --- ---	Parametric decay instability Parametric decay instability	10/12/2014 Wednesday
WP CLL WP CLL	G. Mazzitelli G. Mazzitelli --- --- ---	--- --- ---	--- --- ---	--- --- ---	Liquid metal as Plasma Facing Component Liquid metal as Plasma Facing Component	11/12/2014 Thursday
WP CLL WP CLL	G. Mazzitelli G. Mazzitelli --- --- ---	--- --- ---	--- --- ---	--- --- ---	Liquid metal as Plasma Facing Component Liquid metal as Plasma Facing Component	12/12/2014 Friday

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Topic	EC 1 EC 2 RdO 1 RdO 2 PIC 1 PIC 2	EC	LH	Inj	Experiment 1 Experiment 2	Date Shots
ER DL ER DL	G. Pucella G. Pucella V. Cocilovo B. Esposito --- ---	--- ---	--- ---	--- ---	Density Limit Studies Density Limit Studies	16/12/2014 Tuesday
ER MR ER MR	P. Buratti P. Buratti W. Bin F. Belli --- ---	--- ---	--- ---	--- ---	Magnetic Reconnection Magnetic Reconnection	17/12/2014 Wednesday
ER MR ER MR	G. Pucella G. Pucella G. Ramogida D. Marocco --- ---	--- ---	--- ---	--- ---	Density Limit Studies Density Limit Studies	18/12/2014 Thursday
WP CLL WP CLL	G. Mazzitelli G. Mazzitelli A. Romano G. Calabrò --- ---	--- ---	--- ---	--- ---	Liquid metal as Plasma Facing Component Liquid metal as Plasma Facing Component	19/12/2014 Friday