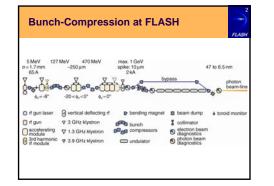
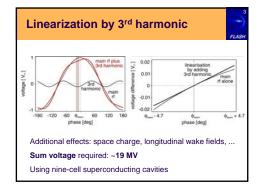
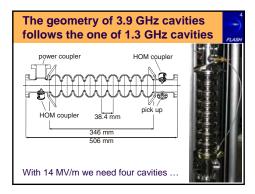
Statu	us of the	
3rd H	armonic Module ACC	39
• • •		
• pi	urpose of the system	
• th	e subsystems and the work distribution	
• SL	urvey on all the work done	
• te	st results	
• ac	ctual status	
	hat comes next	

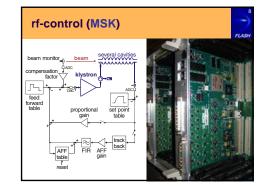




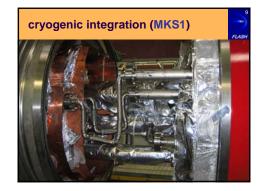




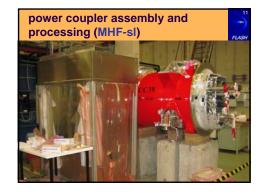








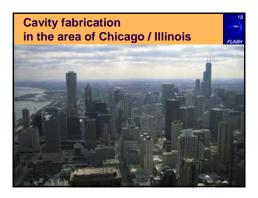








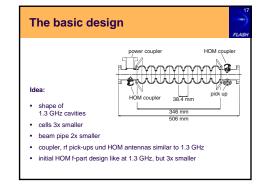


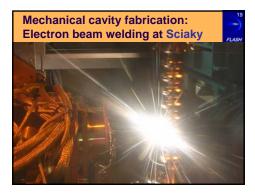


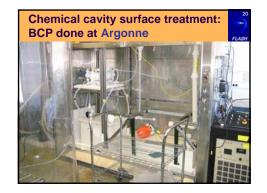
study of beam dynamics (MPY) total projected emittance [mm mrad] -5 0 5 H1GUN + H2GUN [A]















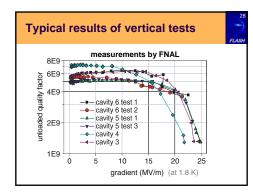


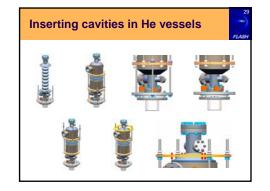






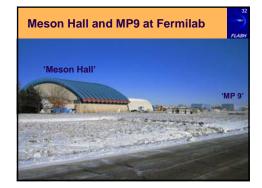












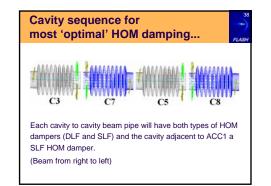




cavity	maximum <u>horizontal</u> gradient achieved	no field emission measured below a gradient of
F3A5	22 MV/m	18 MV/m
F3A3	22 MV/m	18 MV/m
F3A7	26 MV/m	21.7 MV/m
F3A8	24 MV/m	18.3 MV/m











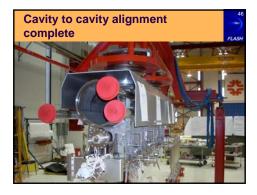




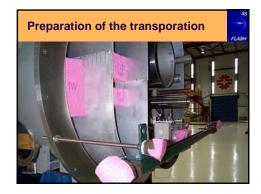


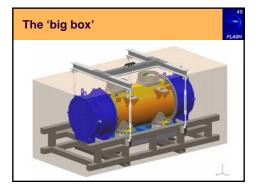






































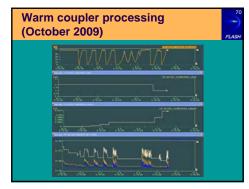




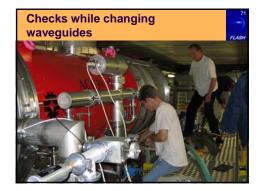




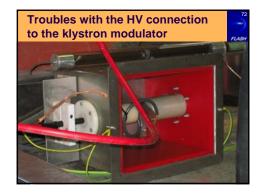


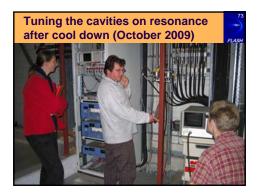


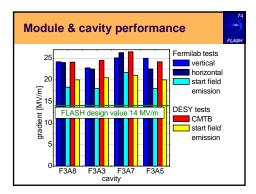








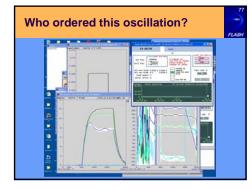




Coupling matri	ix:		
(1	0.051	0.005	0.002)
0.546	1	0.016	0.022
	0.035		0.123
0.003	0.002	0.107	1

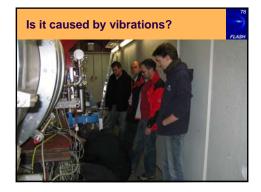


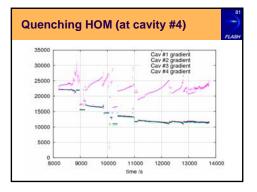




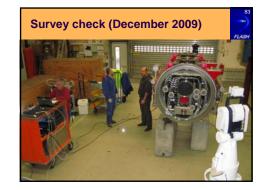
ACC39	required	measured
$\frac{\Delta A}{A} =$	$1 \cdot 10^{-4}$	$1.3 \cdot 10^{-5}$
$\Delta \phi =$	0.03°	0.003°

See FLASH Seminar Talk 'Status of 3.9 GHz LLRF' from Markus Hoffmann given at January 12th 2010



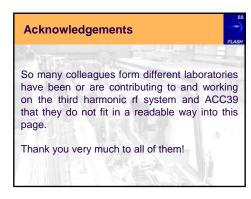














What comes next?	
• remaining technical insta	llation
• technical commissioning	(start: February)
• cool down (end of March)	
commissioning with bean	n (start: mid April)