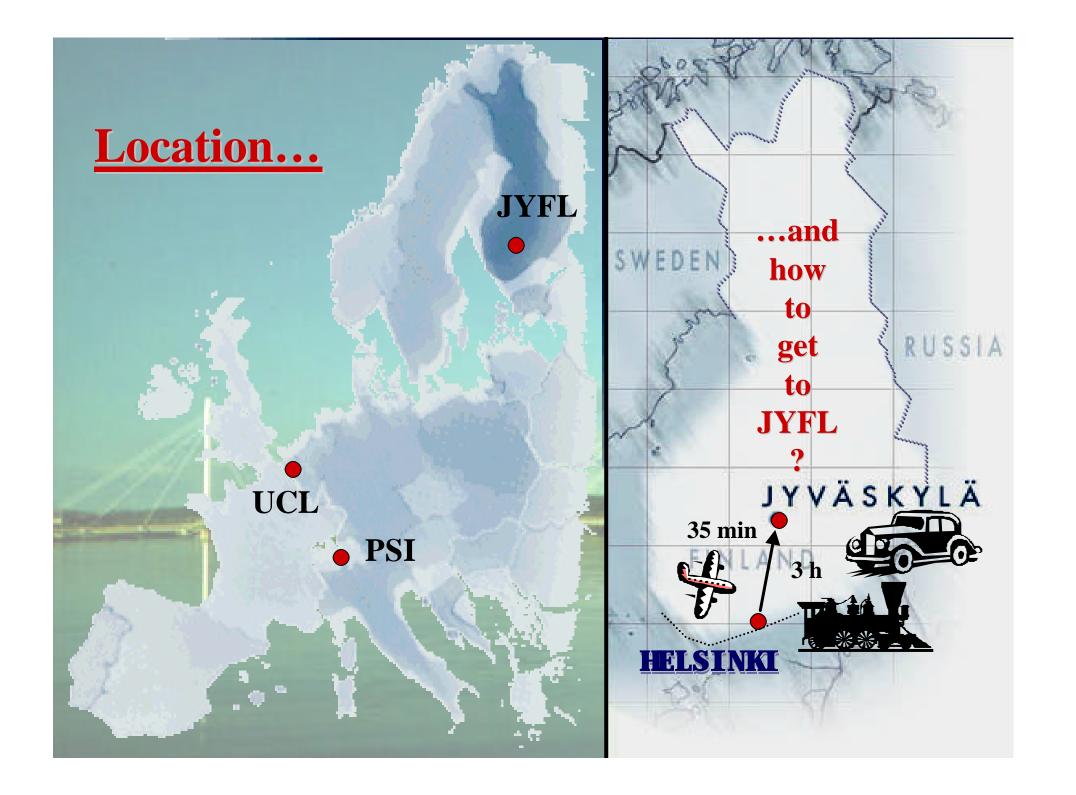
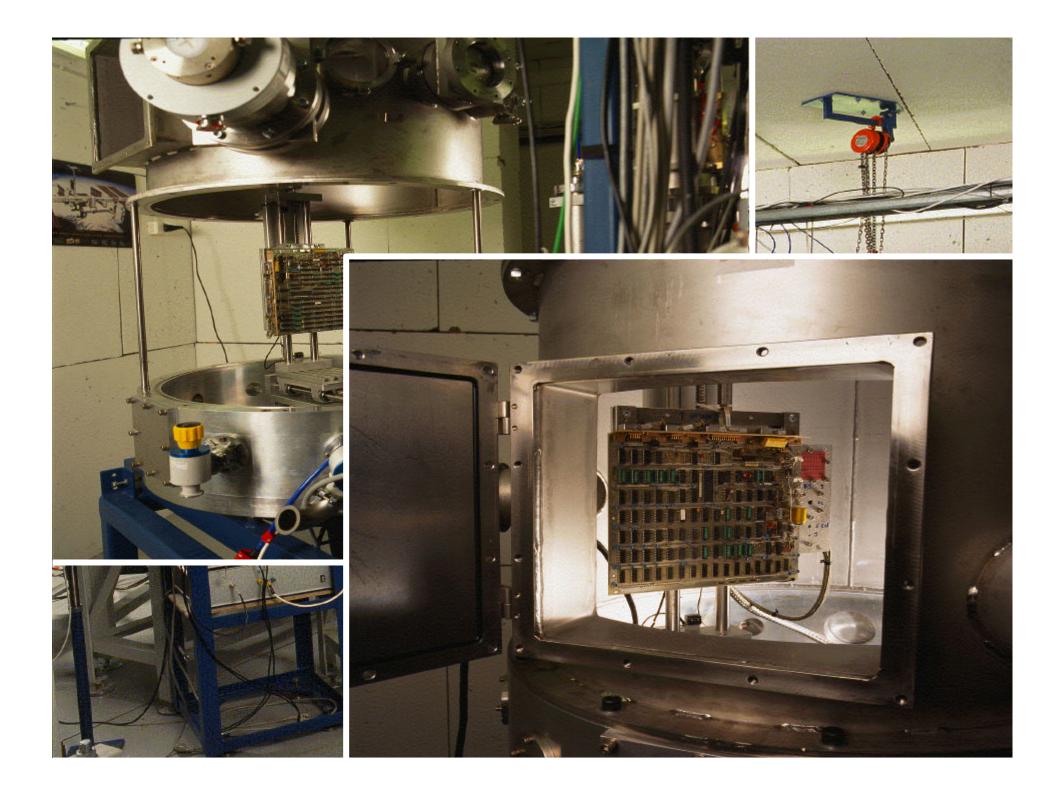
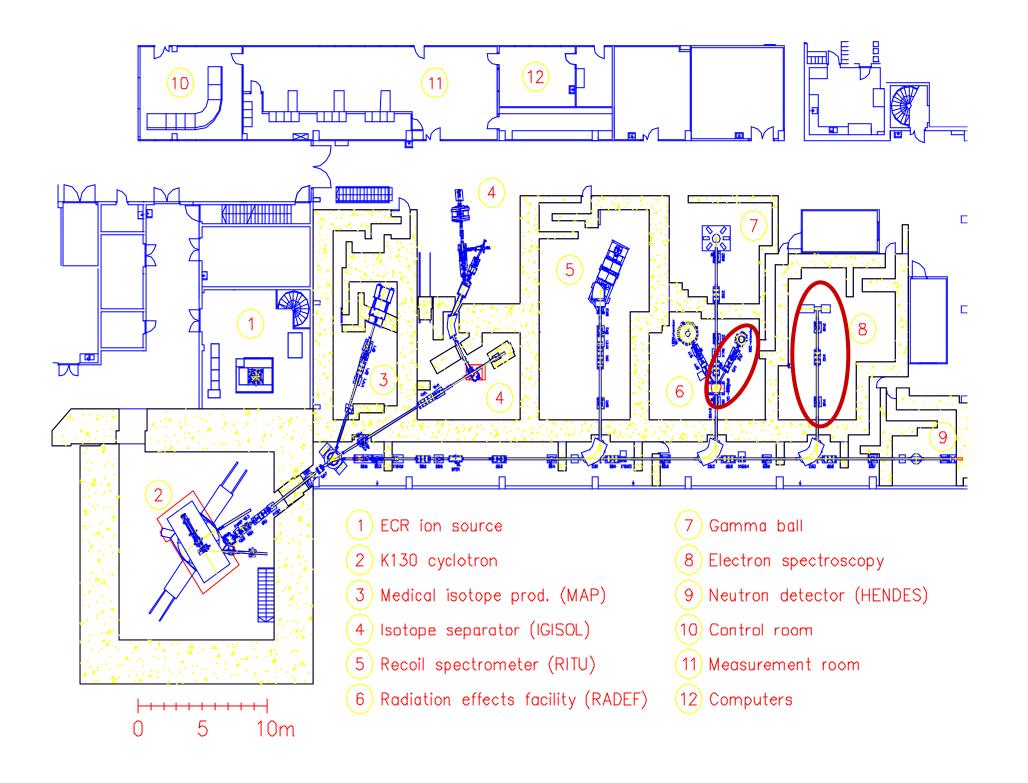
The New ESA Sponsored RADEF Test Site at Jyväskylä – Status, Schedule and Availability

Ari Virtanen

ESTEC/Contract No. 18197/04/NL/CP- Utilisation of the High Energy Heavy Ion Test Facility for Component Radiation Studies

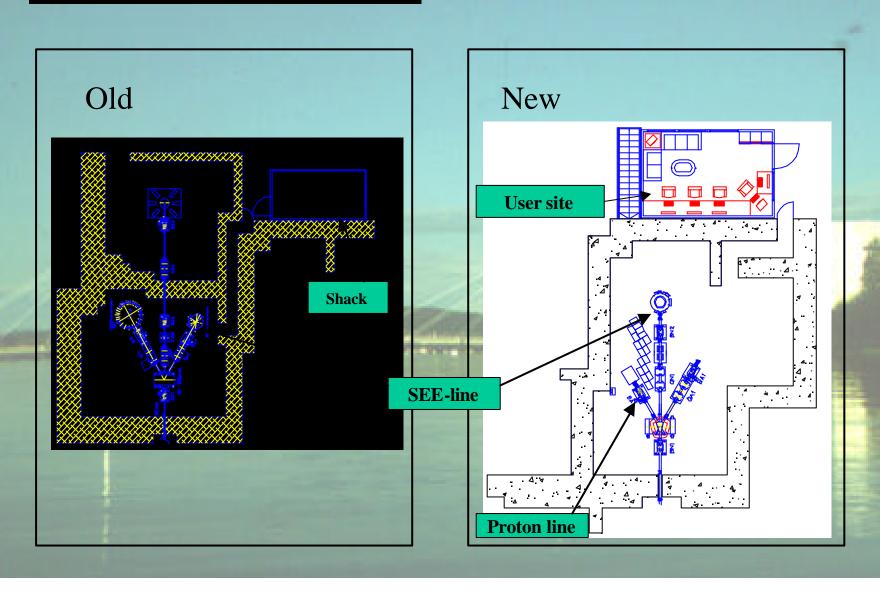








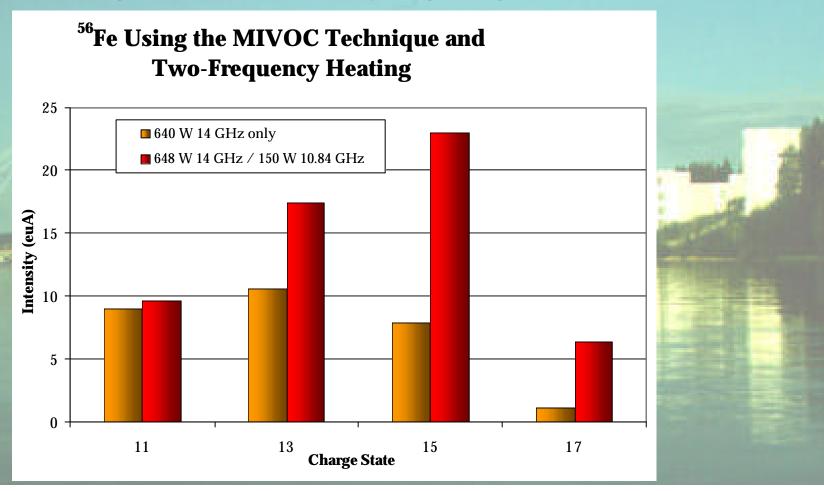
ESA-contract starts with an upgrade of the RADEF station...



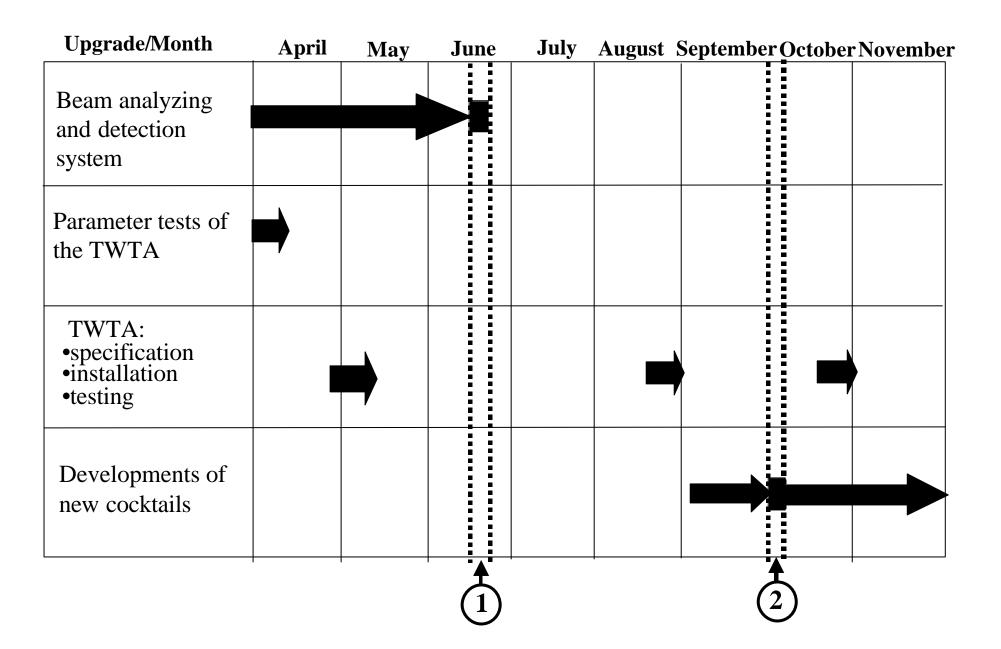
...and continues by installing a TWTA amplifier in the ECR-2 (14 GHz)

The aim is to increase Xe energy/penetrability up to the 1.3 GeV/100 microns in Si

The increase in stripping ability performed at JYFL by using the Argonne TWTA:



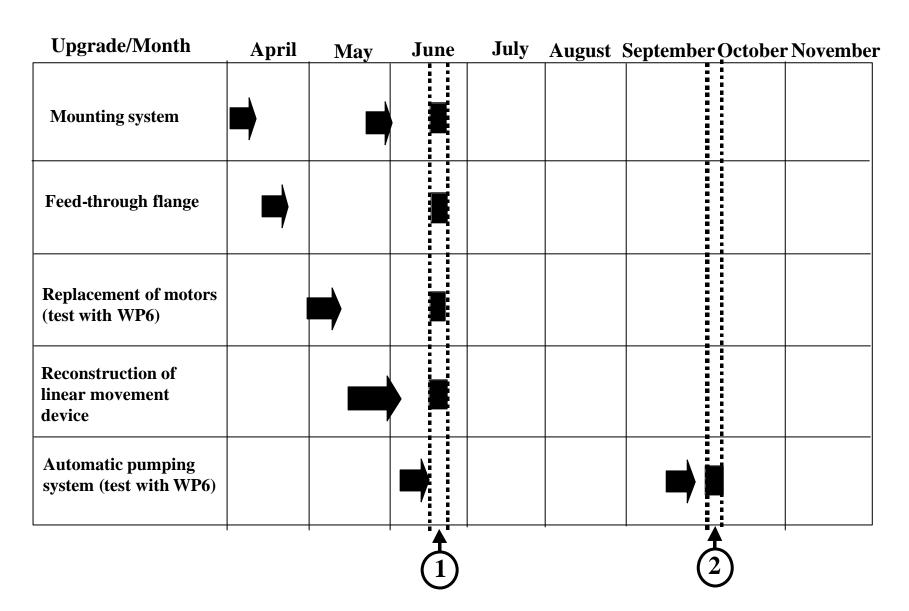
TWTA/ECR = WP1



Beam line and accelerator = WP 2

Upgrade/Month	April	May	June	July	August	September October November
ALCONT modifications start						
Beam fine-tuning system		-				
Cabeling of beam fine- tuning						
Power electronics for wobblers						
Installation of quadr. and wobblers						
Cabeling of quadr. and wobblers						
	'	'				2

Chamber and linear equipment = WP 3



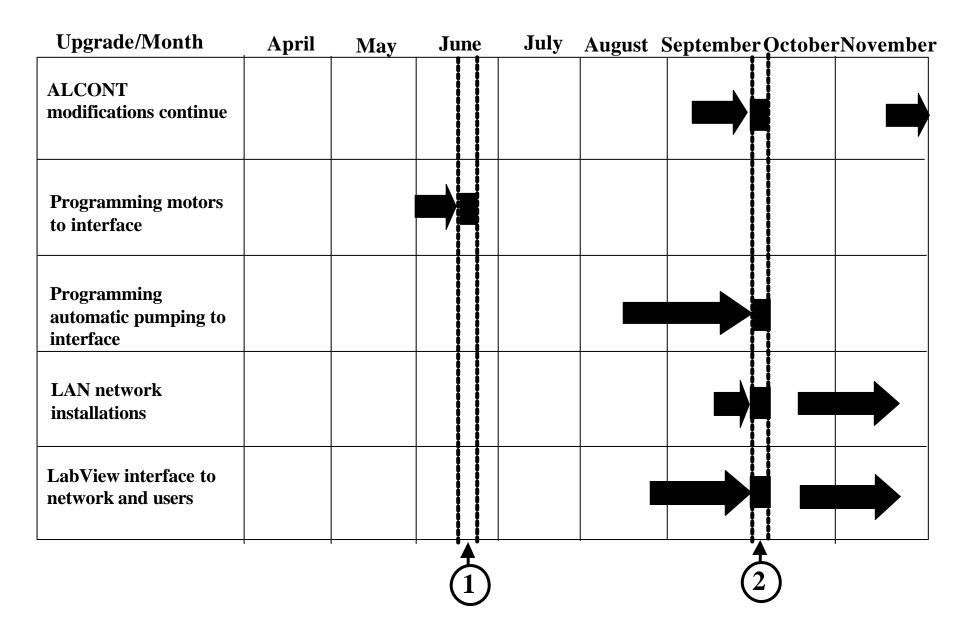
Proton station = WP 4

Upgrade/Month	April	May	June	July	August	September October November
Linear movement device for protons						
Extra shielding for protons						
Beam dump for protons						+
Faraday cup for protons			•			
PMT-detectors installation and tests						
		1				2

Cave constructions = WP 5

Upgrade/Month	August	September
Refurnishing of test cave		
Refurnishing of test site		
Finalisation of cabeling; incl. LAN network		
		2

Software developments = WP 6



Commissioning and utilisation = WP 7&8

