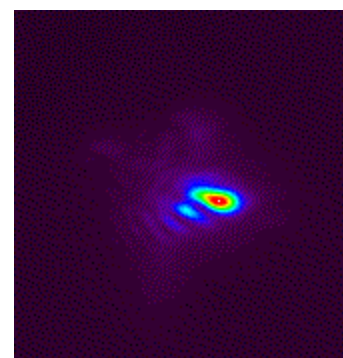
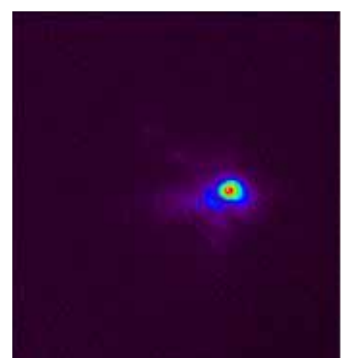
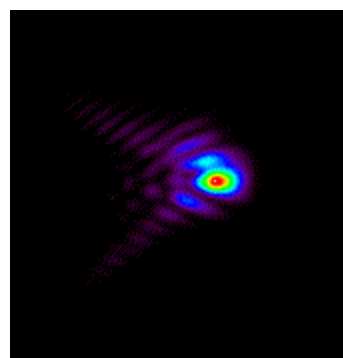
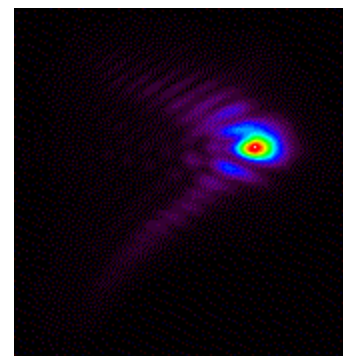
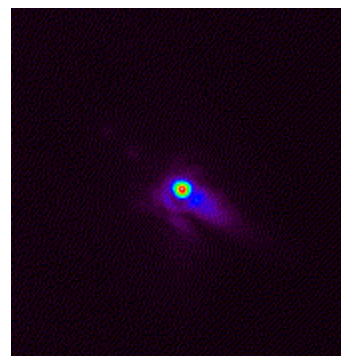
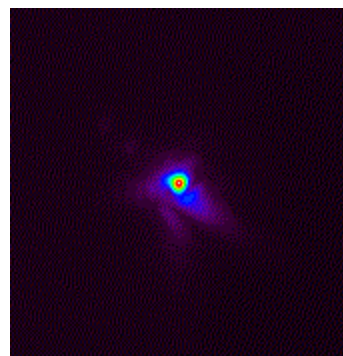
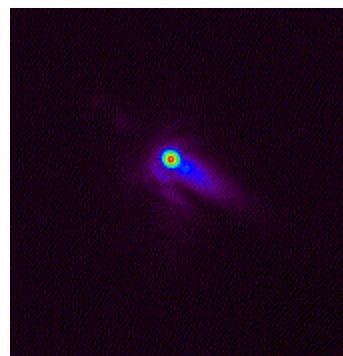


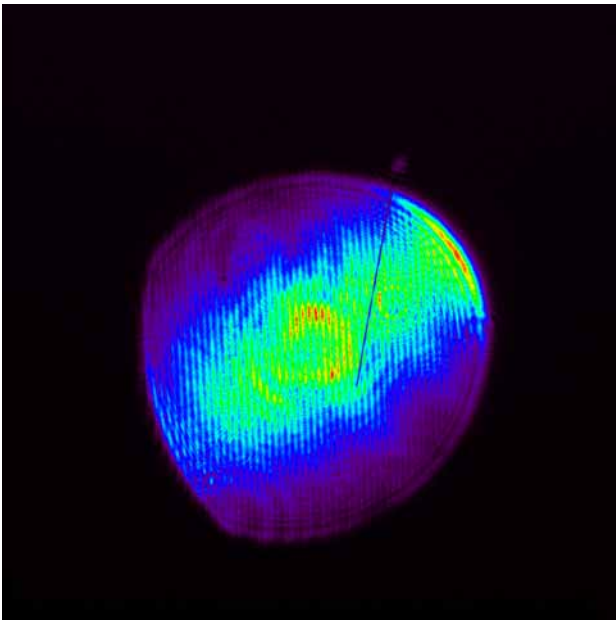
16bit focal spot images

The experiment with Julien Fuchs and coworkers from LULI (Ecole Polytechnique, France), and with students from Osaka, Japan (Prof. Kodama's group) involved special ellipsoidal plasma mirrors, which help improving the focus and contrast of the laser. The following section shows measurement images of the focal spots. Typical FWHM values were 1.5-3 μ m.



Rear View Emission

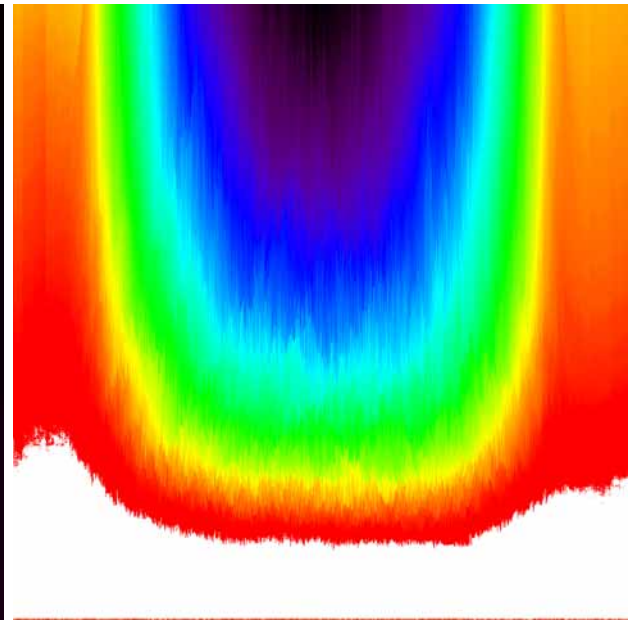
Watch optical emission from the rear side of the target



Needle calibration



Pre-shot w/ target



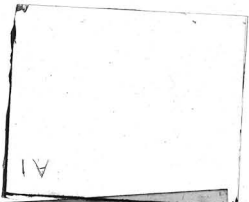
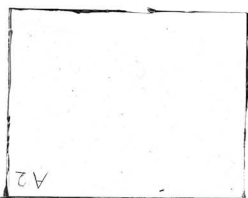
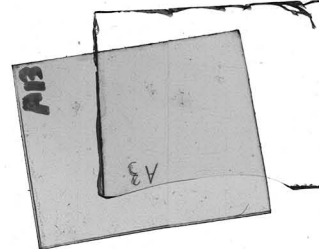
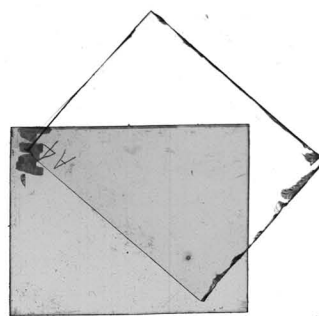
on-shot (overexposed?)

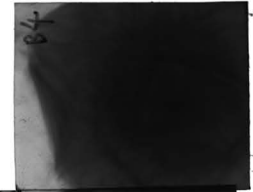
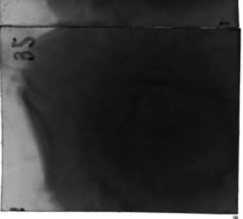
Radiochromic Films

Main diagnostic; deeper layers of film represent higher energies. Typically energies of 40-45MeV of protons were detected (imaged). The film was sandwiched with Mo foils (not pictured) and CR39 nuclear track detector, which shall developed in France.

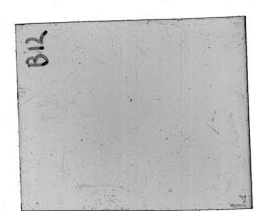
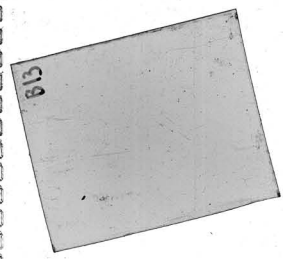
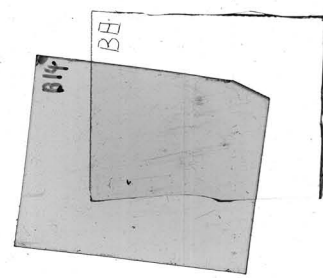
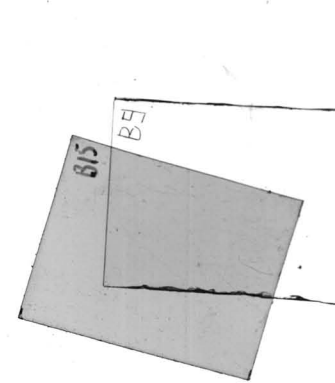
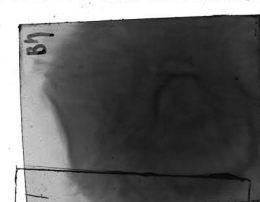
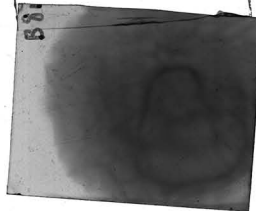
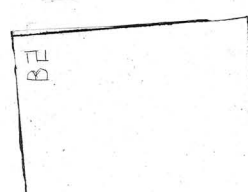
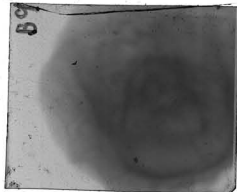
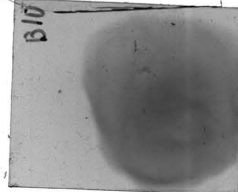
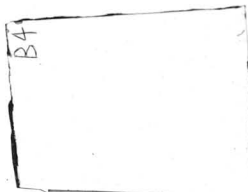
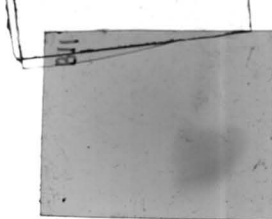


85J 27 MeV





83J 36 ~ 40 McV



C1

C2

C3



C4



C5



C6

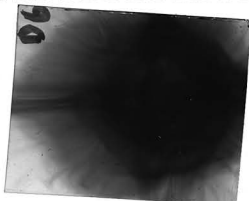


C7



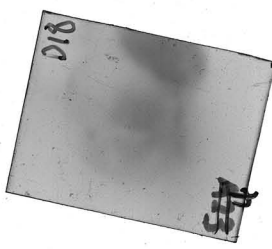
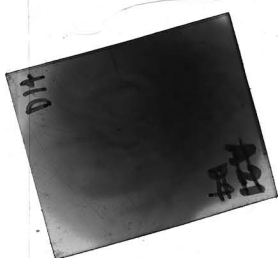
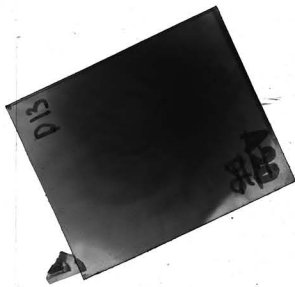
C8





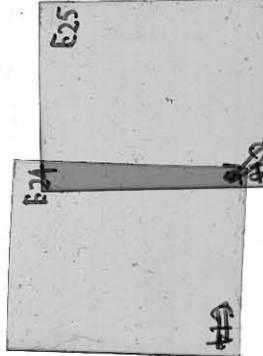
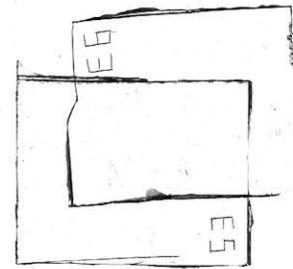
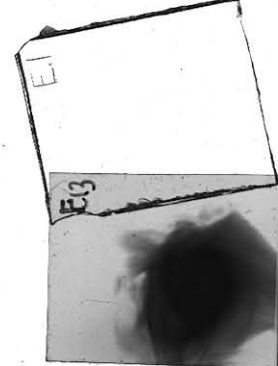
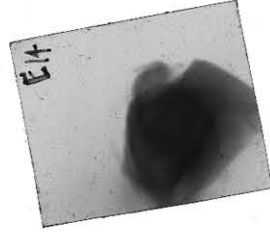
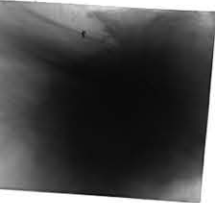
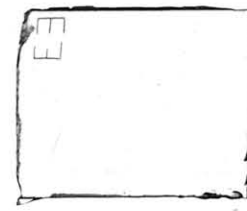
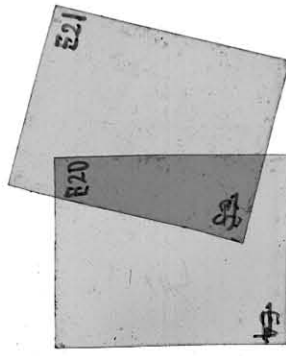
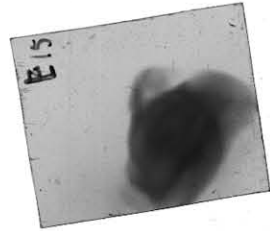
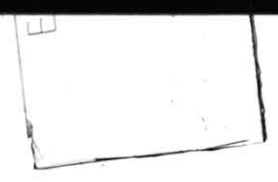
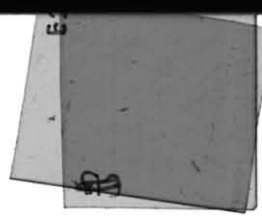
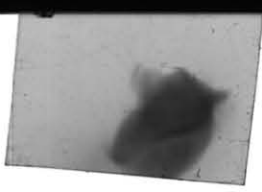
Shot 4 913

300µm x 300µm at 1µm



Nov 19

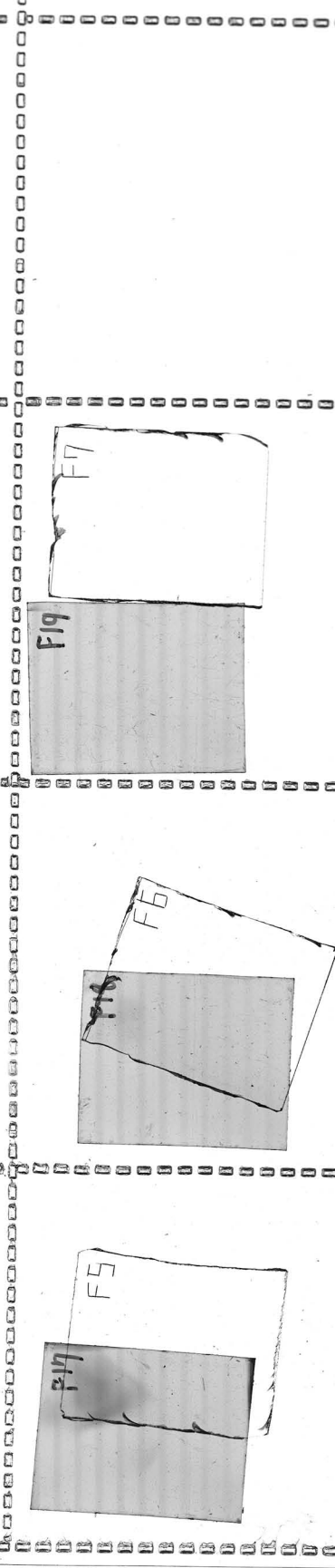
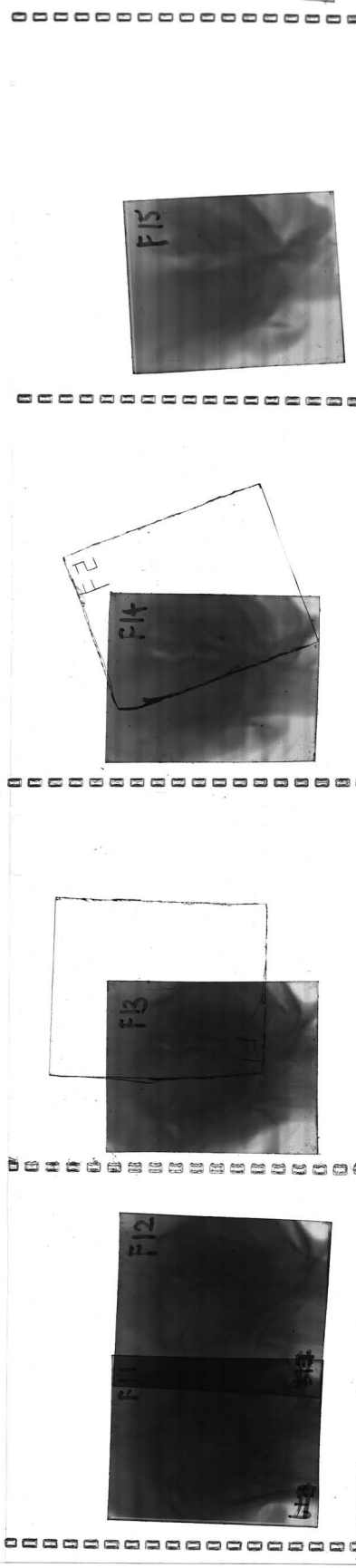
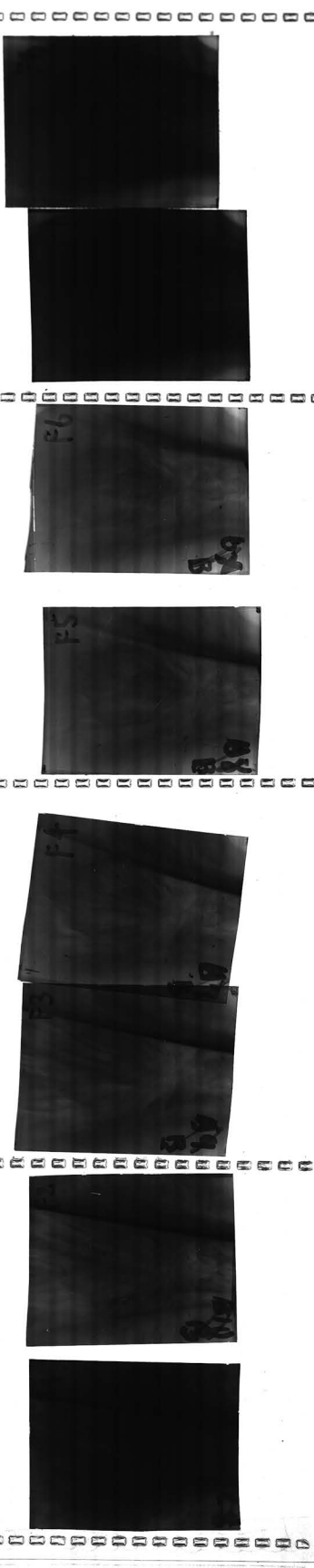
Nov 88



Shot #5
50x50 mm lens
Eidrich

48 Nov

42 Nov



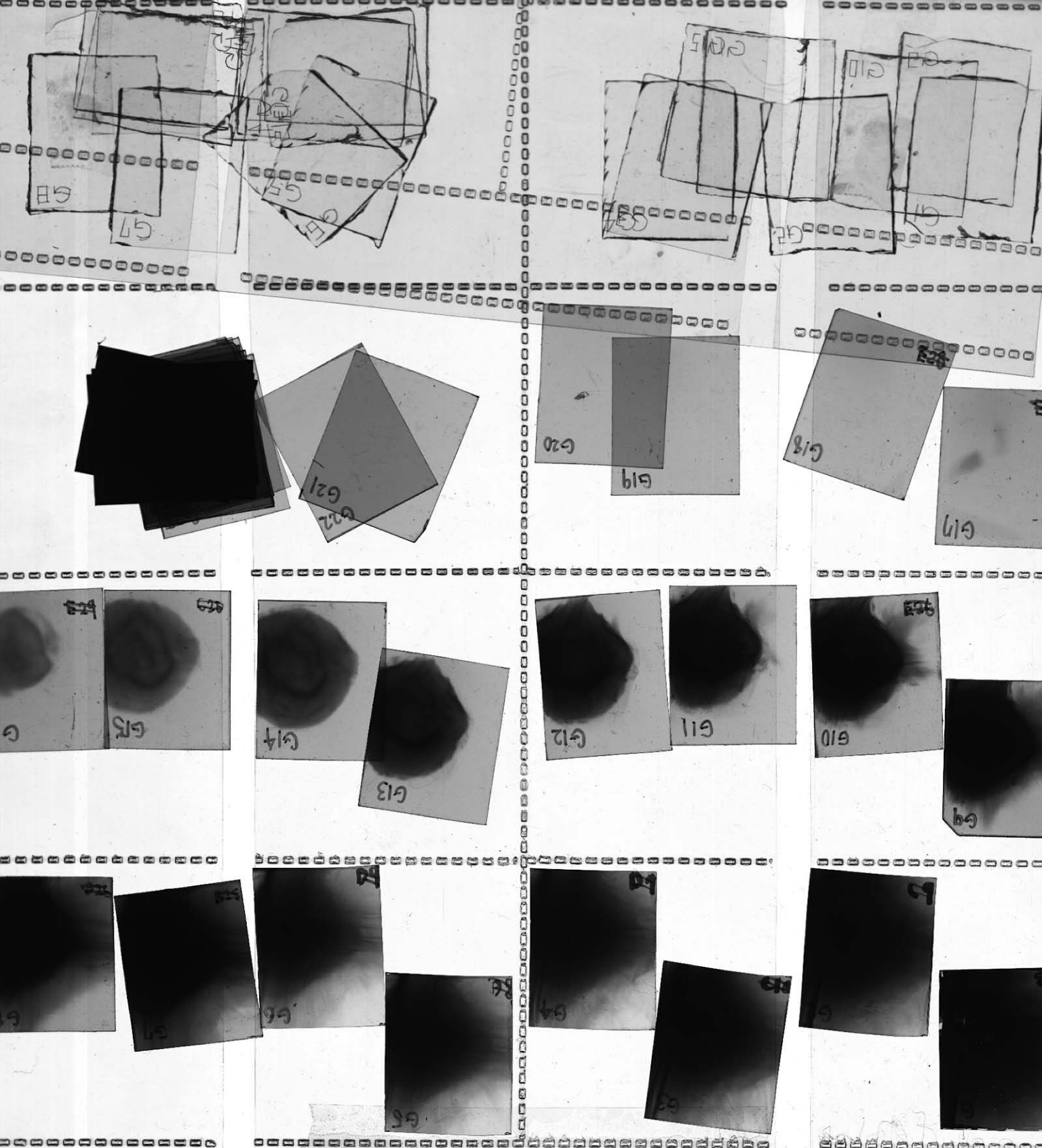
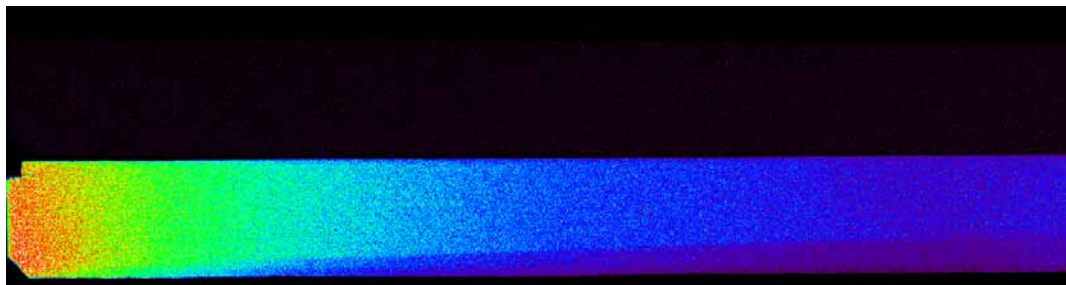


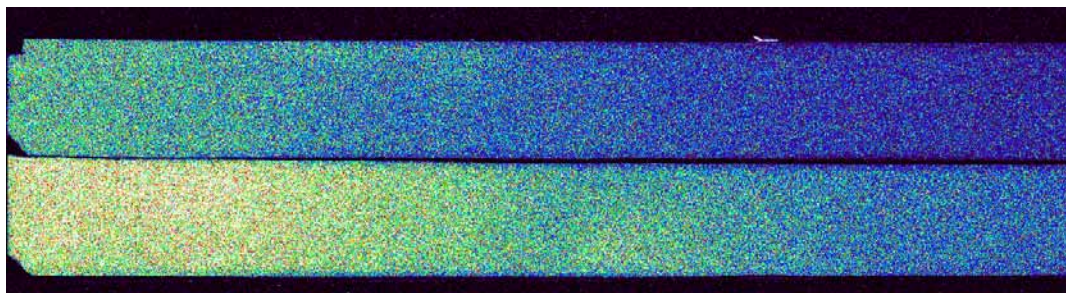
Image Plate Data

Images of an electron spectrometer and 2D detectors deep in a film stack, which are sensitive up to several 10s of MeV, depending on their position (higher numbers indicate higher energies).

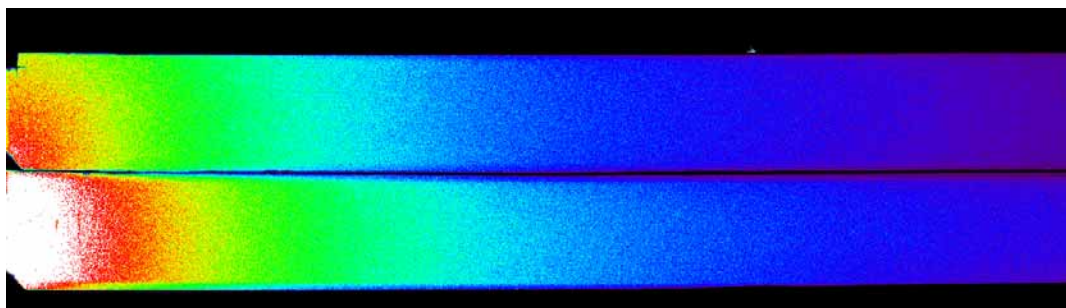
Electron spectrometer data



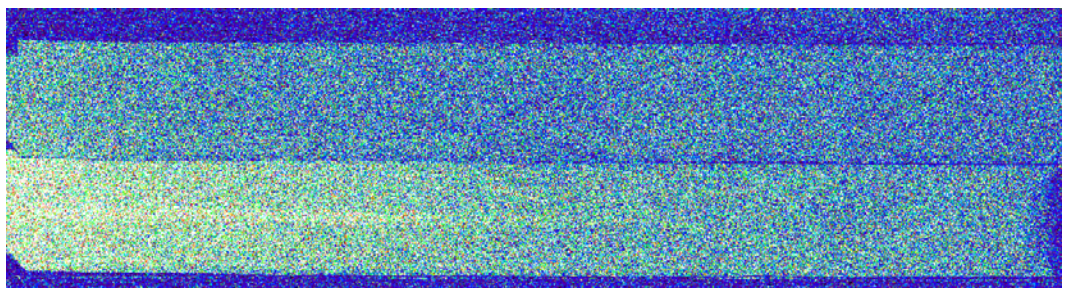
B0092301



B0092204

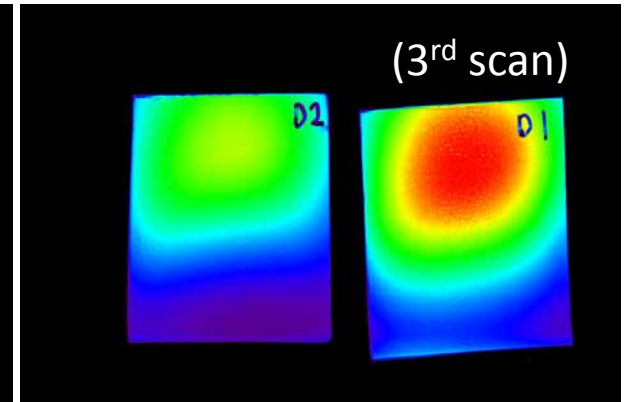
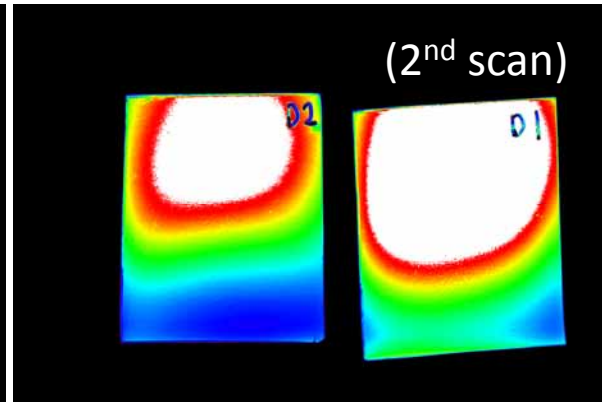
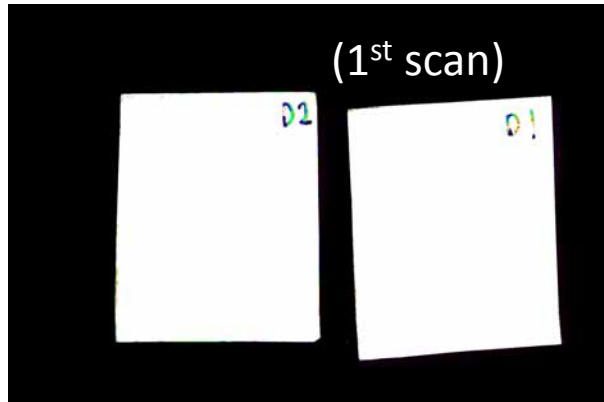
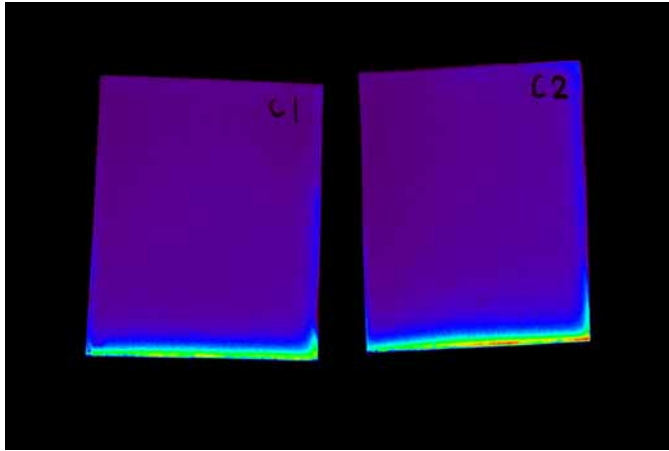


B0092201

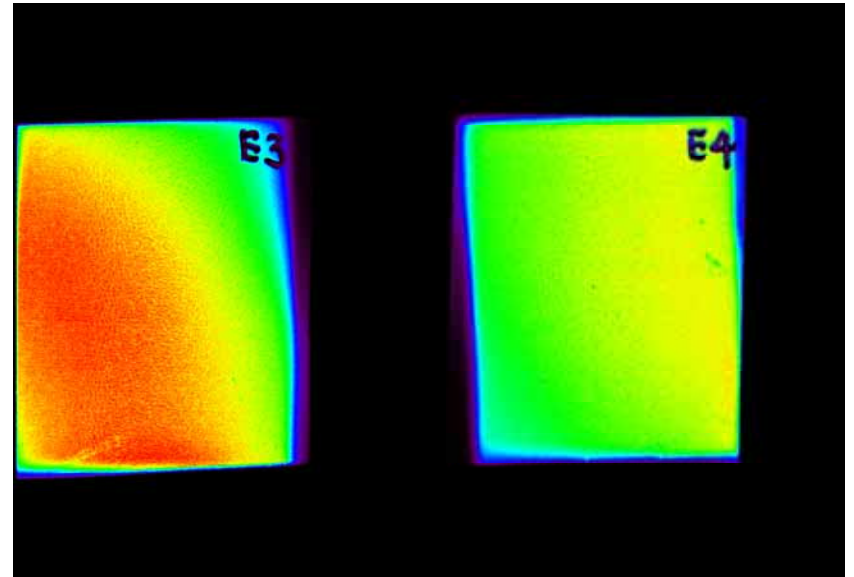
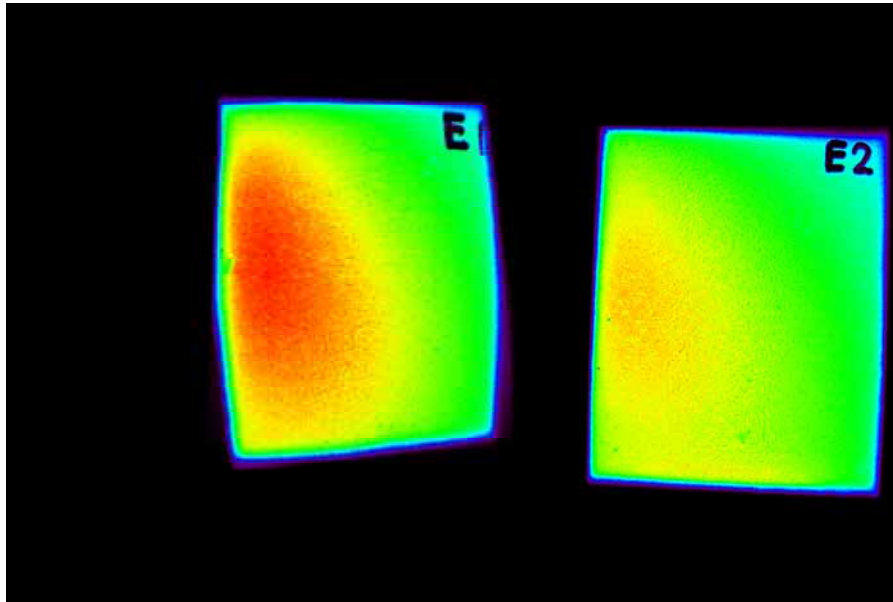


B0092101

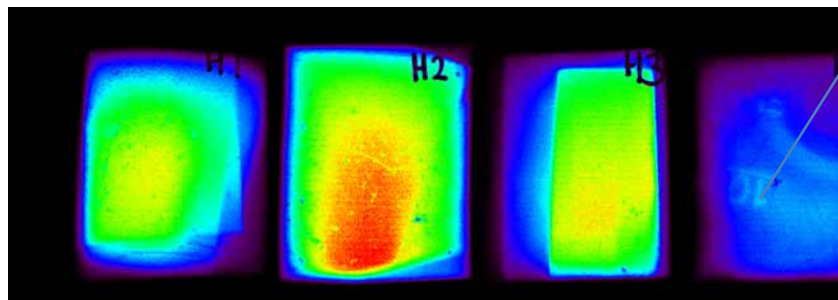
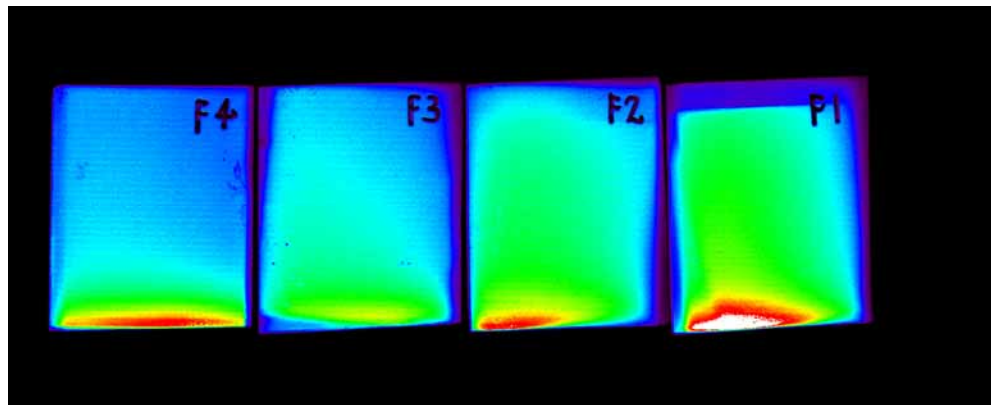
2D detectors' data



2D detectors' data



2D detectors' data

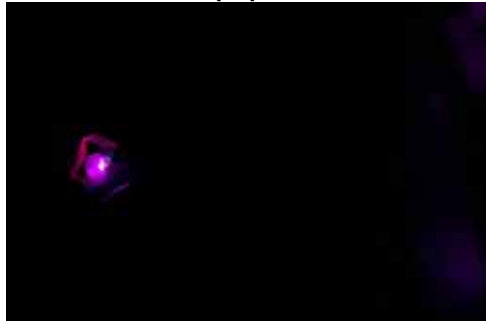


IPs must have been previously compromised while being erased.

SLR IMAGES

Pictures of the target assembly before the shot
and of the plasma on shot. Taken by SLR camera.

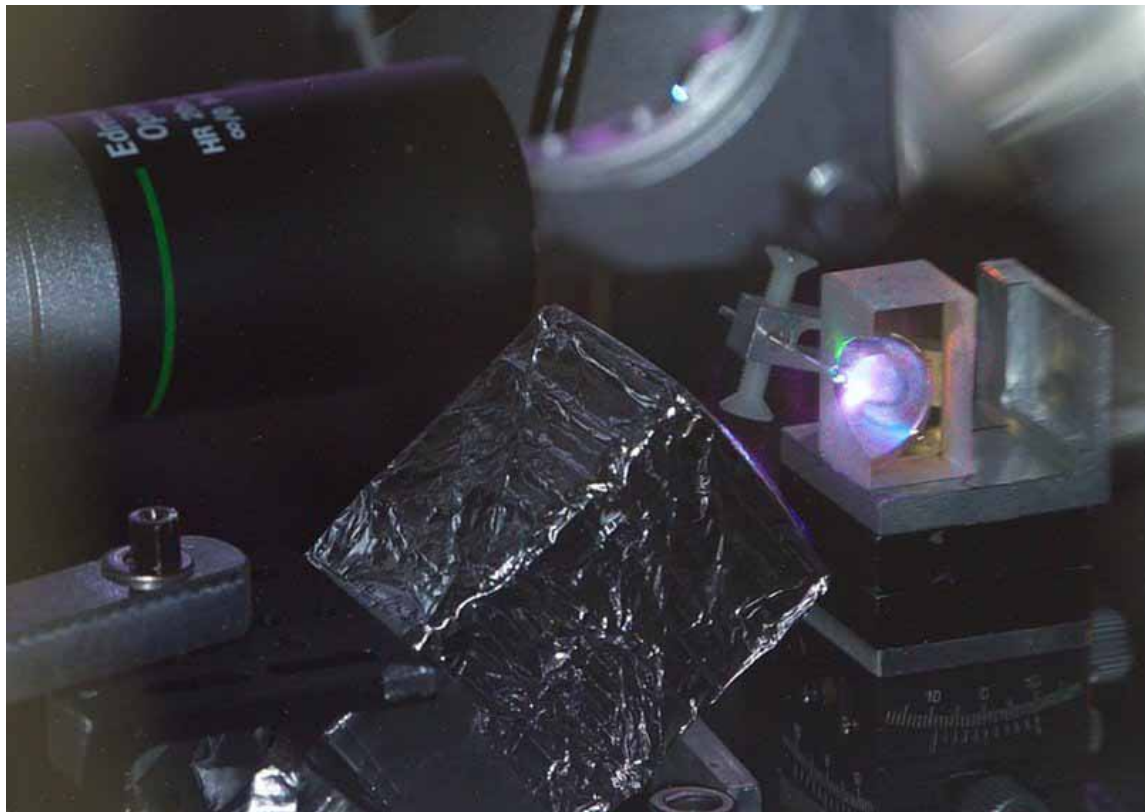
On-shot (5)



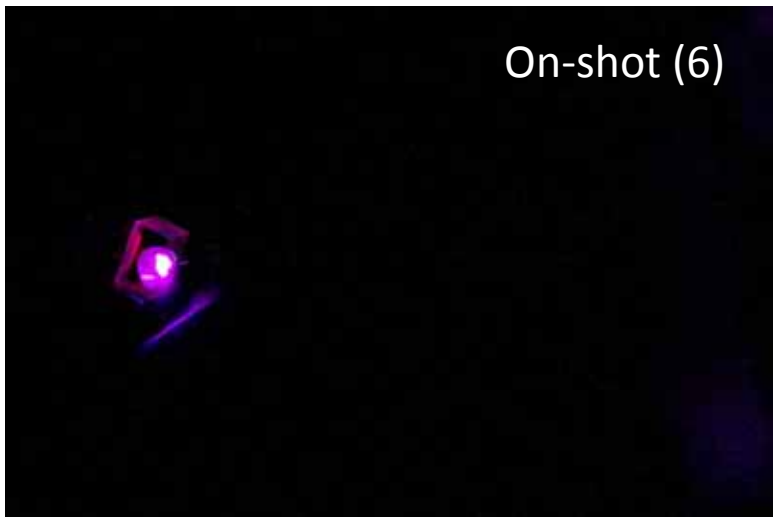
Pre-shot (5)



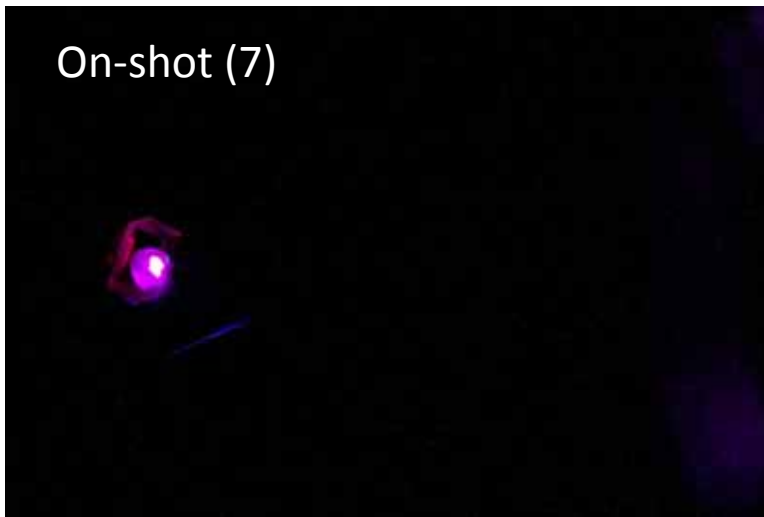
Assembled image



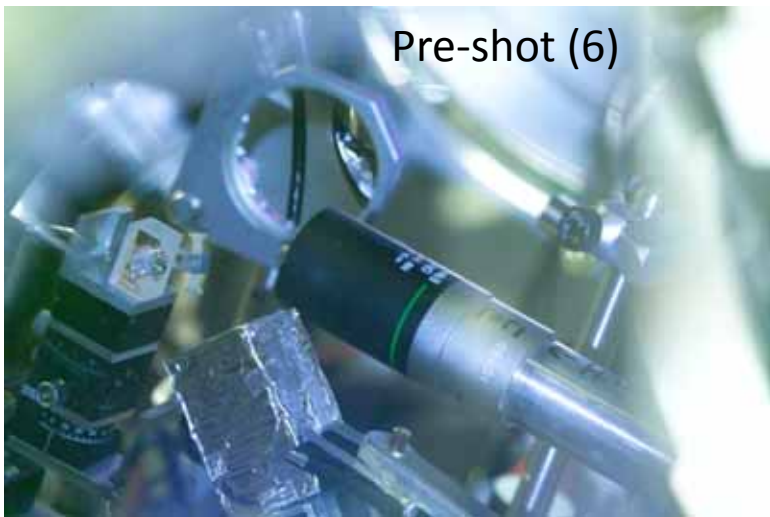
On-shot (6)



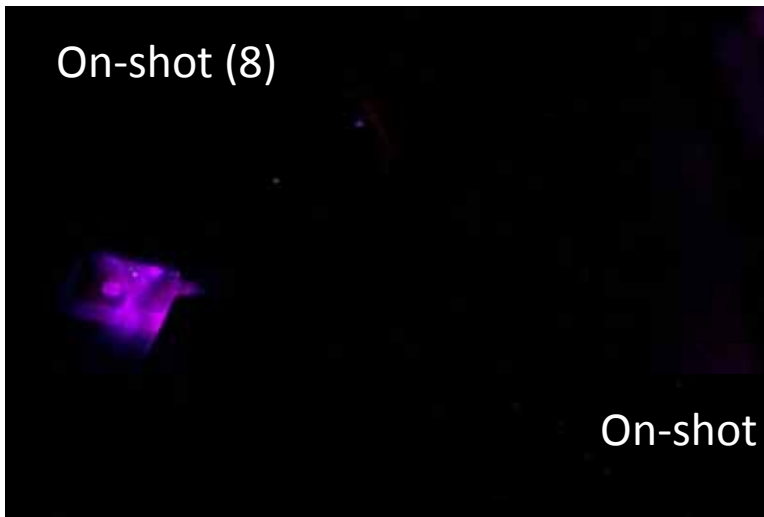
On-shot (7)



Pre-shot (6)



On-shot (8)



On-shot (calibration)



Docu IMAGES

Pictures of the experimental setup. Taken with a digital camera.

Focus Alignment



Focus Alignment



Streak w/ fiber bundle



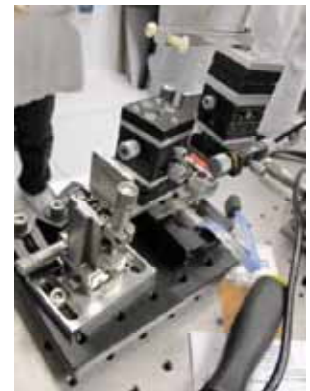
In target chamber

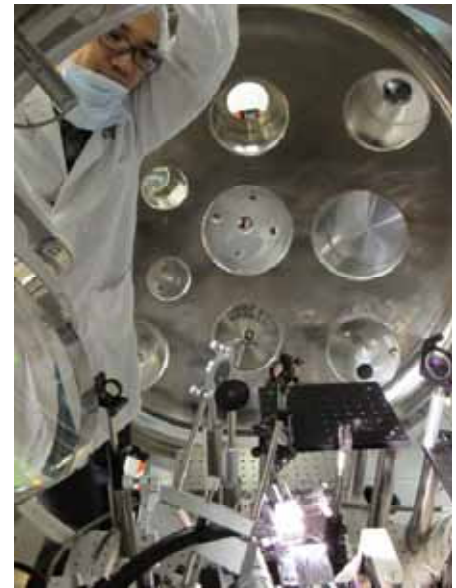
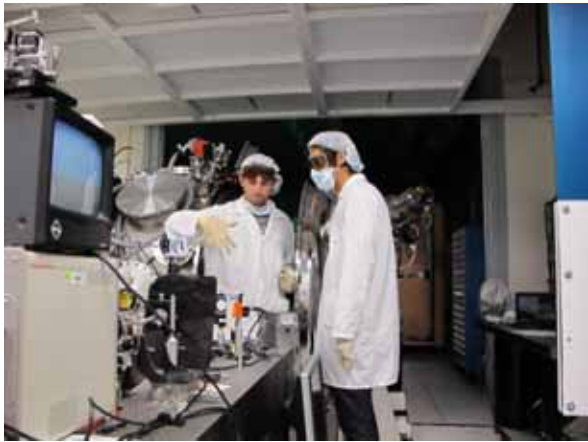


In target chamber

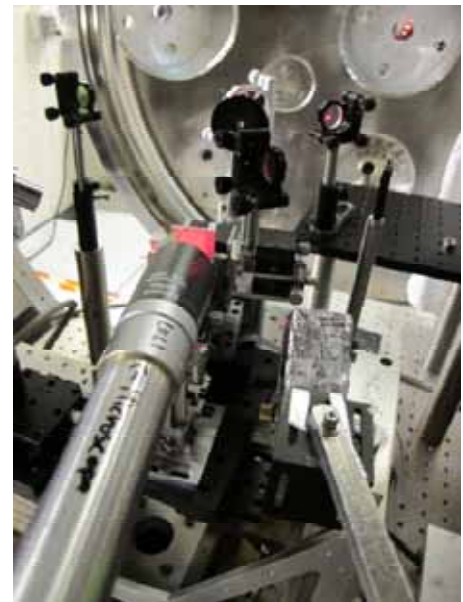
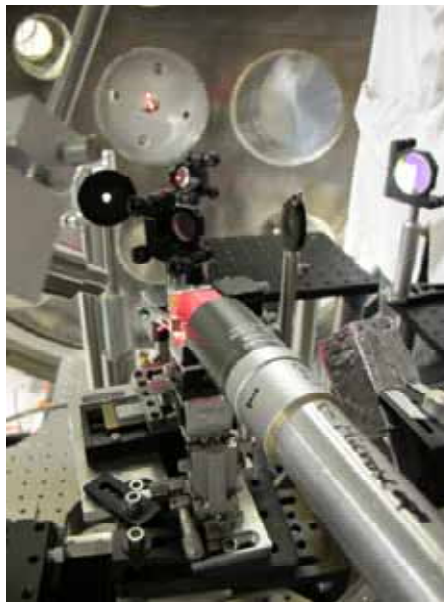
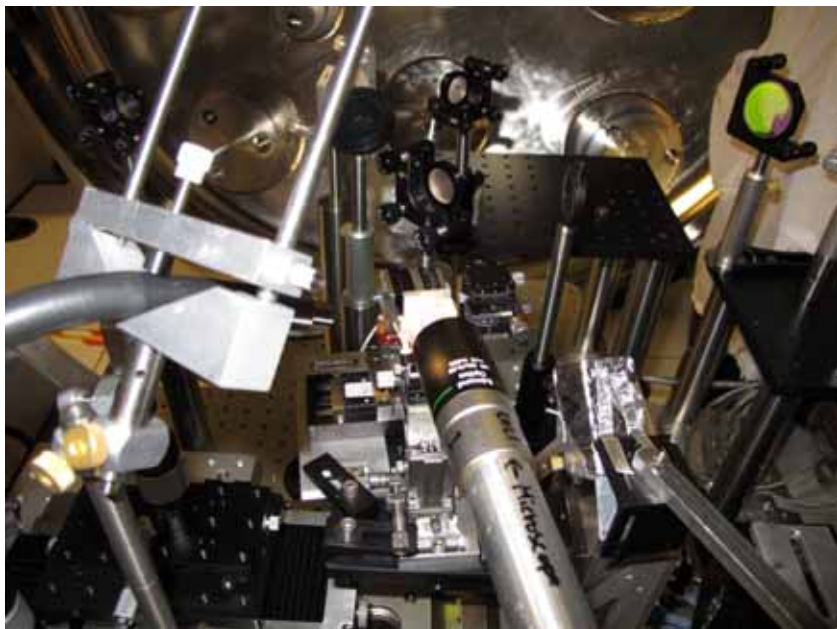
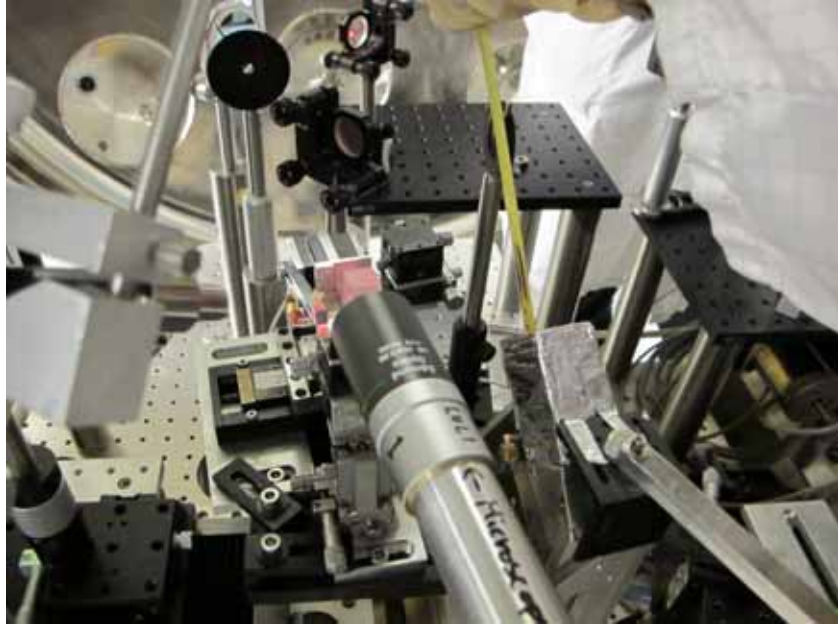


Alignment jig:

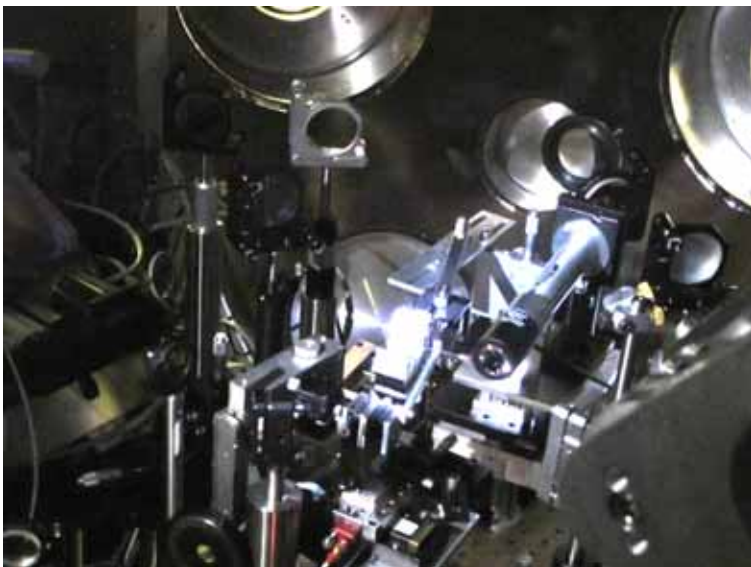
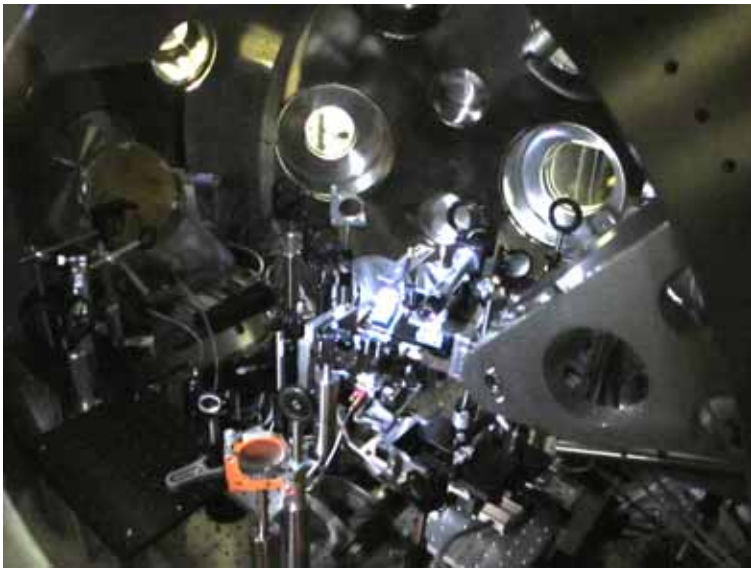




(PEOPLE)



ALIGNMENT



Target view from east

Number	Shot Number	campaign	Target	Energy
129	B0091509	EPM LULI/Osaka	EPM, Al 50x50x1 micron	84 J
130	B0091609	EPM LULI/Osaka	EPM, Al 1mm x 1mm x 1micron	83 J
131	B0092101	EPM LULI/Osaka	EPM, Al 300x300x8.5 p-pol	86 J
132	B0092201	EPM LULI/Osaka	EPM, Au 300x300x1 micron p-pol	91 J
133	B0092205	EPM LULI/Osaka	EPM, Au 50x50x1 micron p-pol	91 J
134	B0092301	EPM LULI/Osaka	EPM, Au 100x100x1 p-pol	94 J
135	B0092303	EPM LULI/Osaka	flat PM calorimeter meas.	95 J
136	B0092401	EPM LULI/Osaka	EPM, Au 100x100x1 p-pol	90 J
137	B0092403	EPM LULI/Osaka	Au 100x100x1 mixed-pol flat PM	91 J