


# C2092 N - (1) General Information

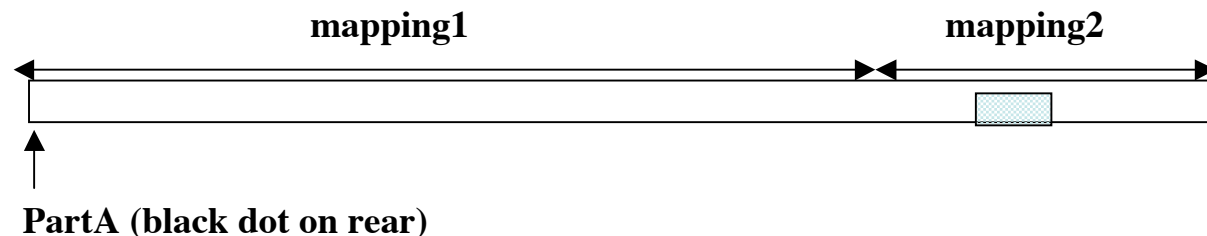
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(1): IAS, Orsay, France

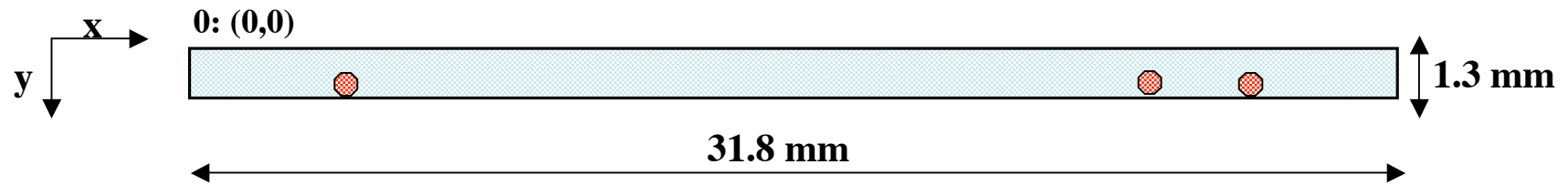
(2): LSPES, Lille, France

(mapping and chemical analysis performed in May 2006)

- Dimensions of the foil:  $\sim 31.8 \times \sim 1.3 \text{ mm}^2$
- SEM-FEG Hitachi S4700, equipped with EDS system
- Search for craters at 20 kV,  $10 \mu\text{A}$
- Gx250, whole foil and Gx1000, 1 zone chosen at random (see  below)
- Foil very polluted by aerogel debris, between  $\sim 3$  and  $\sim 25 \text{ mm}$
- The sample was held with 2 strips of carbon double tape and had to be analyzed in two steps as showed below



## (2) Craters localization



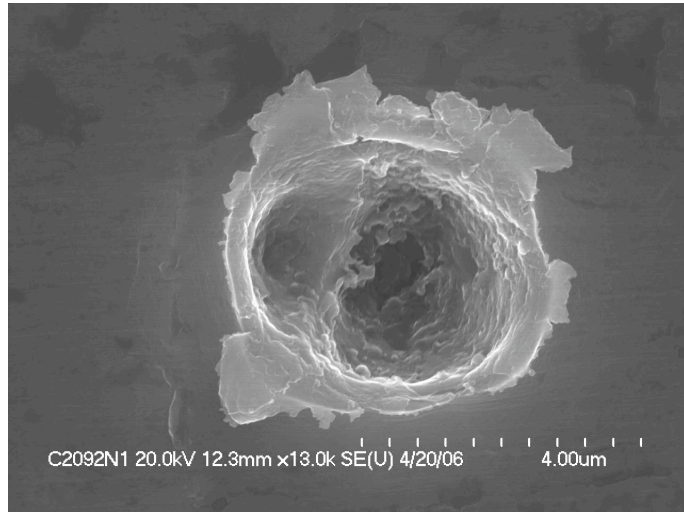
Crater #	1	2	3
x (mm)	3.9	24.97	27.47
y (mm)	1.02	0.60	1.08

### (3) Size distribution

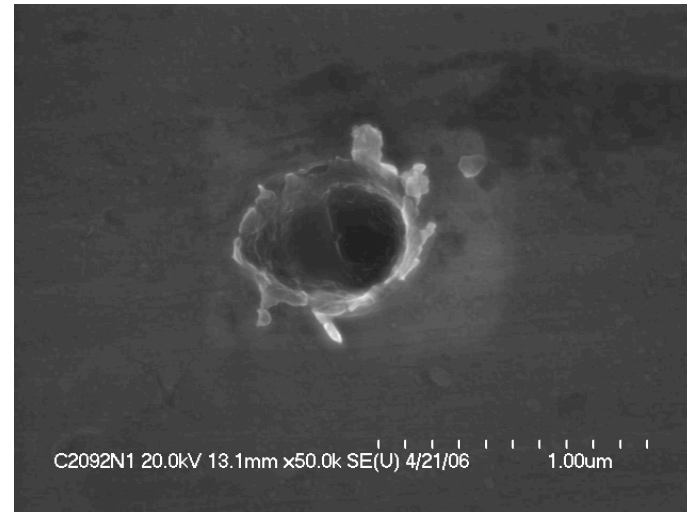
Crater #	1	2	3
Diameter ( $\mu\text{m}$ )	3.42*4.18	0.52	0.61

Total area analyzed:  $S \sim 41.4 \text{ mm}^2$   
 $\Rightarrow$  Evaluated flux:  $\Phi \sim 7.26 \cdot 10^4/\text{m}^2$

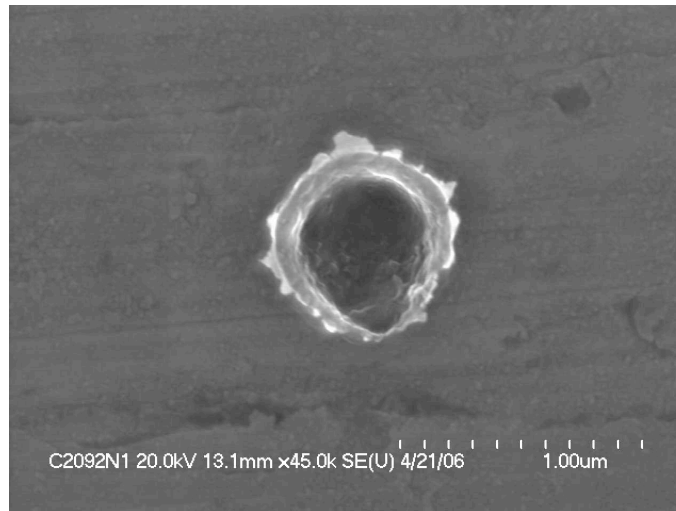
## (4) Images of the craters



*Crater # 1*  
*(double)*



*Crater # 2*



*Crater # 3*

## (5) Composition data

	<b>Al-K</b>	<b>O-K</b>	<b>Si-K</b>	<b>Mg-K</b>	<b>Fe-L</b>	<b>S-K</b>	<b>Ca-K</b>
<b>crater 1</b>	<b>87,71</b>	<b>2,28</b>	<b>1,45</b>	<b>7,35</b>	<b>0,58</b>	<b>0,48</b>	<b>0,15</b>
<b>crater1, right</b>	<b>90,52</b>	<b>3,73</b>	<b>1,87</b>	<b>2,53</b>	<b>0,54</b>	<b>0</b>	<b>0,8</b>
<b>crater 2</b>	<b>92,62</b>	<b>4,64</b>	<b>0,58</b>	<b>0</b>	<b>1,62</b>	<b>0,43</b>	<b>0,11</b>
<b>crater 3</b>	<b>90,34</b>	<b>4,53</b>	<b>1,8</b>	<b>0,59</b>	<b>1,92</b>	<b>0,7</b>	<b>0,11</b>

ZAF corrections, 7kV,  
100 sec counting