

# C2043 N - (1) General Informations

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**(1): IAS, Orsay, France**

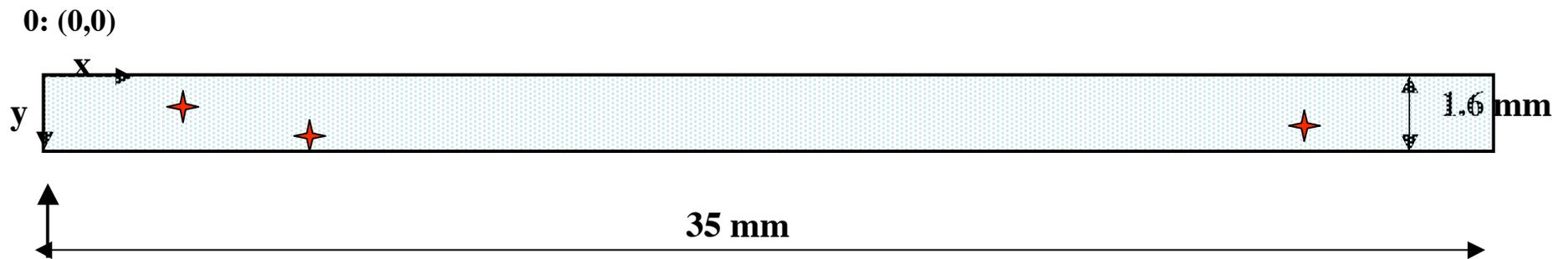
**(2): LSPES, Lille, France**

**(mapping and chemical analysis performed in February 2006)**

- Dimensions of the foil:  $\sim 35 \text{ mm}^* \sim 1.6 \text{ mm}$  ( $S = 56 \text{ mm}^2$ ).**
- SEM-FEG Hitachi S4700, equipped with EDS system**
- Search for craters at 20 kV and  $I = 10 \mu\text{A}$**
- G x 700.**
- The sample was held with 2 strips of carbon double tape.**
- (0,0) of coordinates under part A (black dot on rear side)**

## (2) Craters localization

Crater #	1	2	3
x (mm)	29.63	2.94	5.95
y (mm)	0.8	0.38	1.07



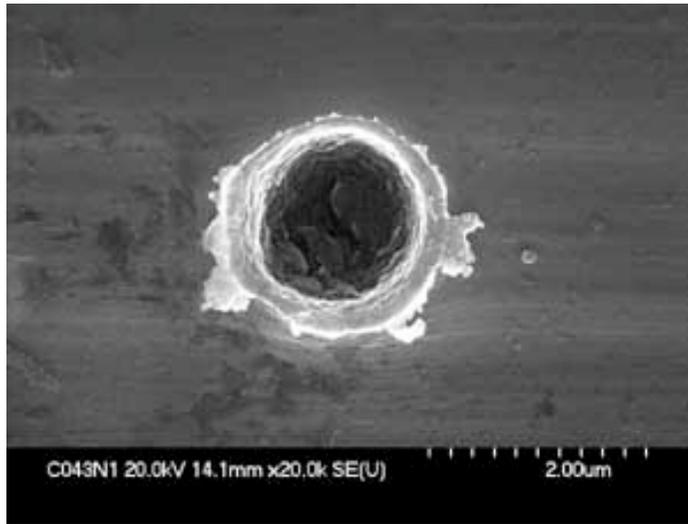
A: (black dot on rear)

### (3) Size distribution

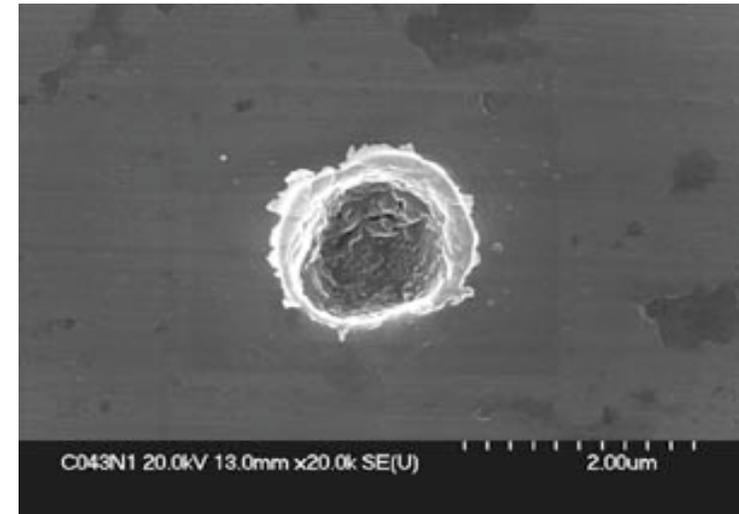
Crater #	1	2	3
Diameter ( $\mu\text{m}$ )	1.76	1.47	0.275

**Total area analyzed:  $S \sim 56 \text{ mm}^2$**   
 **$\Rightarrow$  Evaluated flux:  $\Phi \sim 5.36 \cdot 10^4/\text{m}^2$**

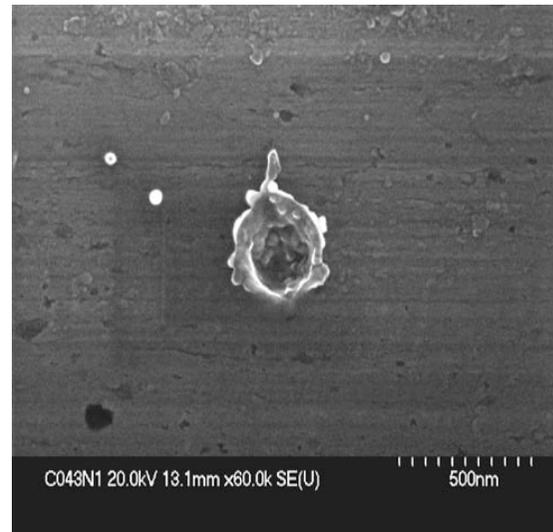
## (4) Images of the craters



**Figure 1: Crater # 1**



**Figure 2: Crater # 2**



**Figure 3: Crater # 3**

## **(5) Composition data**

**Crater 1 : Elemental composition : Mg, Si, Fe**

**Crater 2 : very low abundances of Mg, Si and Fe ; S?**

**Crater 3 : no analysable residue**

*Acquisition conditions : 20keV  
100 sec counting*

## **(6) More ...**

**Stardust Al-Foil C2043N1, crater1:**

**FIB – TEM work described in report by Rhonda Stroud**