

Status Padme Active Target

21 Luglio 2017 - Collaboration meeting

G. Chiodini on behalf of Lecce PADME group

**R. Assiro, G. Chiodini, P. Creti, G. Fiore,
F. Oliva and V. Scherini**

INFN Lecce

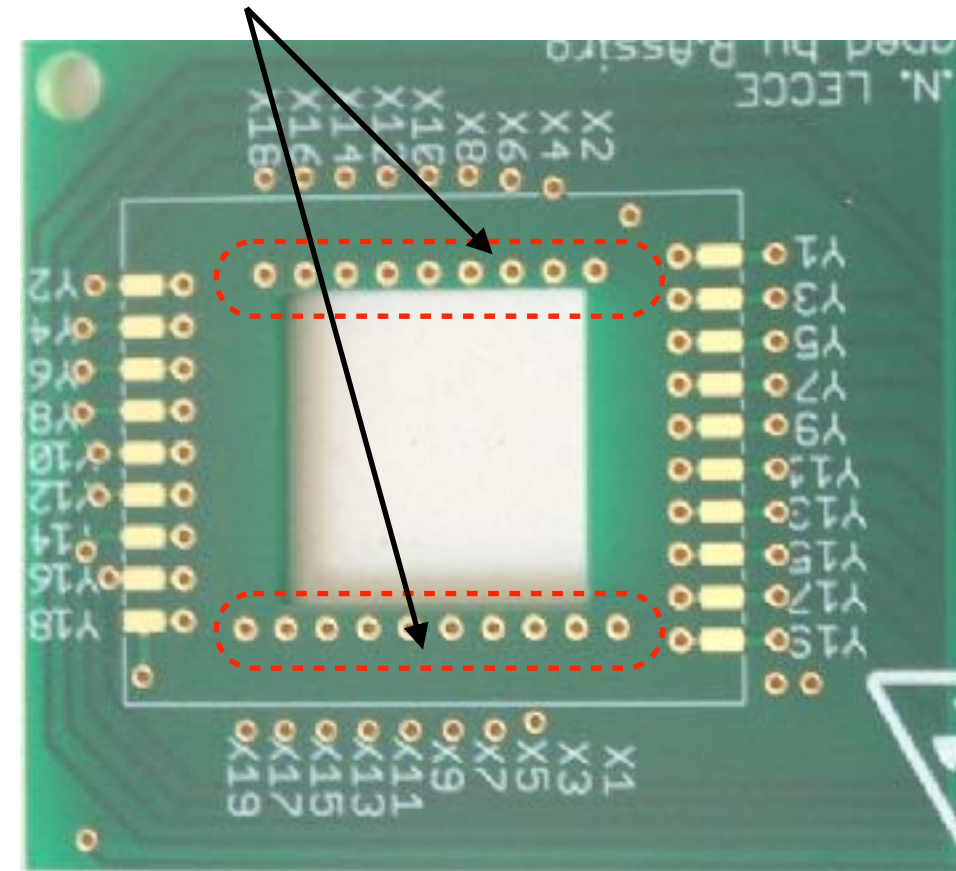
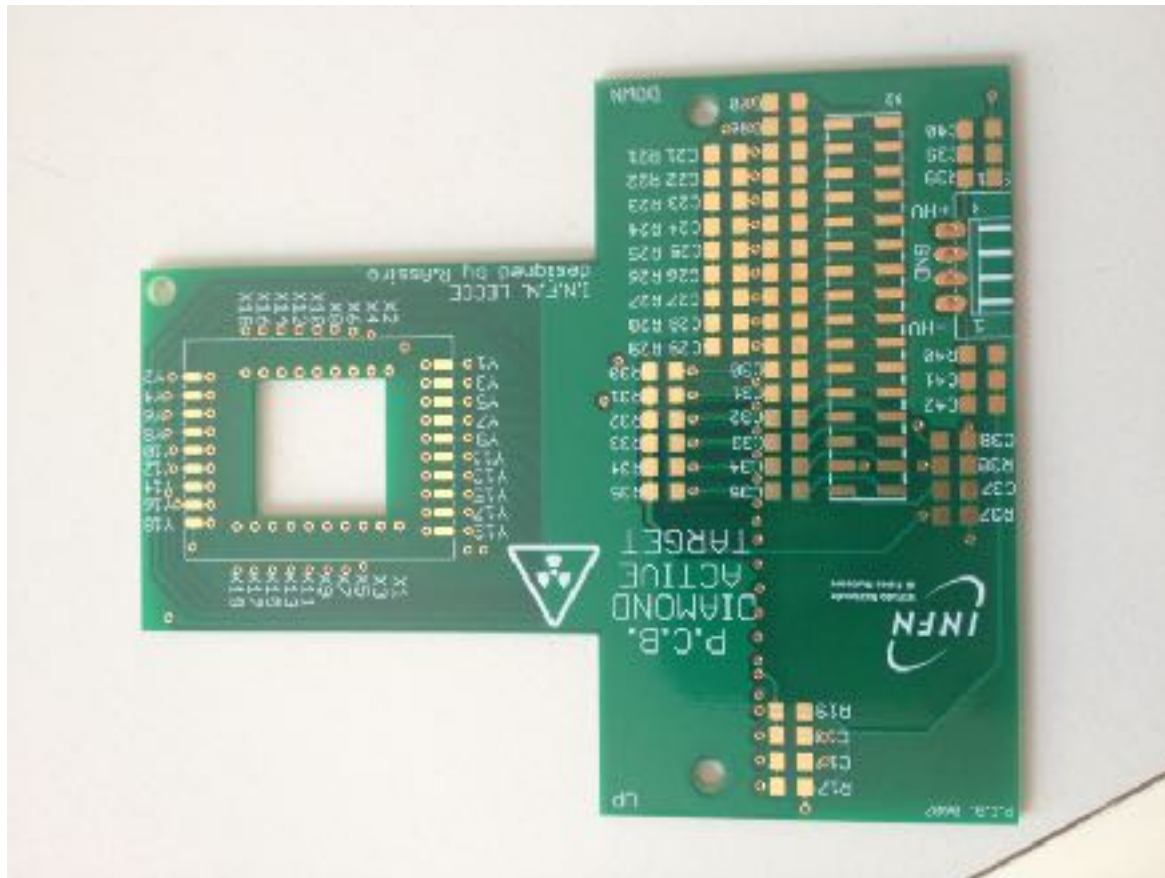
**A.P. Caricato, M. Corradi, F. Gontad, C. Pinto, M. Martino,
S. Spagnolo**

INFN Lecce and Università del Salento

Outlook

- Status ACTIVE TARGET in Lecce
(News with respect to referee meeting)
 - Sensors gluing
 - Diamond target preparation
- Preventivi 2018
 - Richieste
 - Anagrafica

Deposition of conductive glue on PCB



Two type of conductive glue:

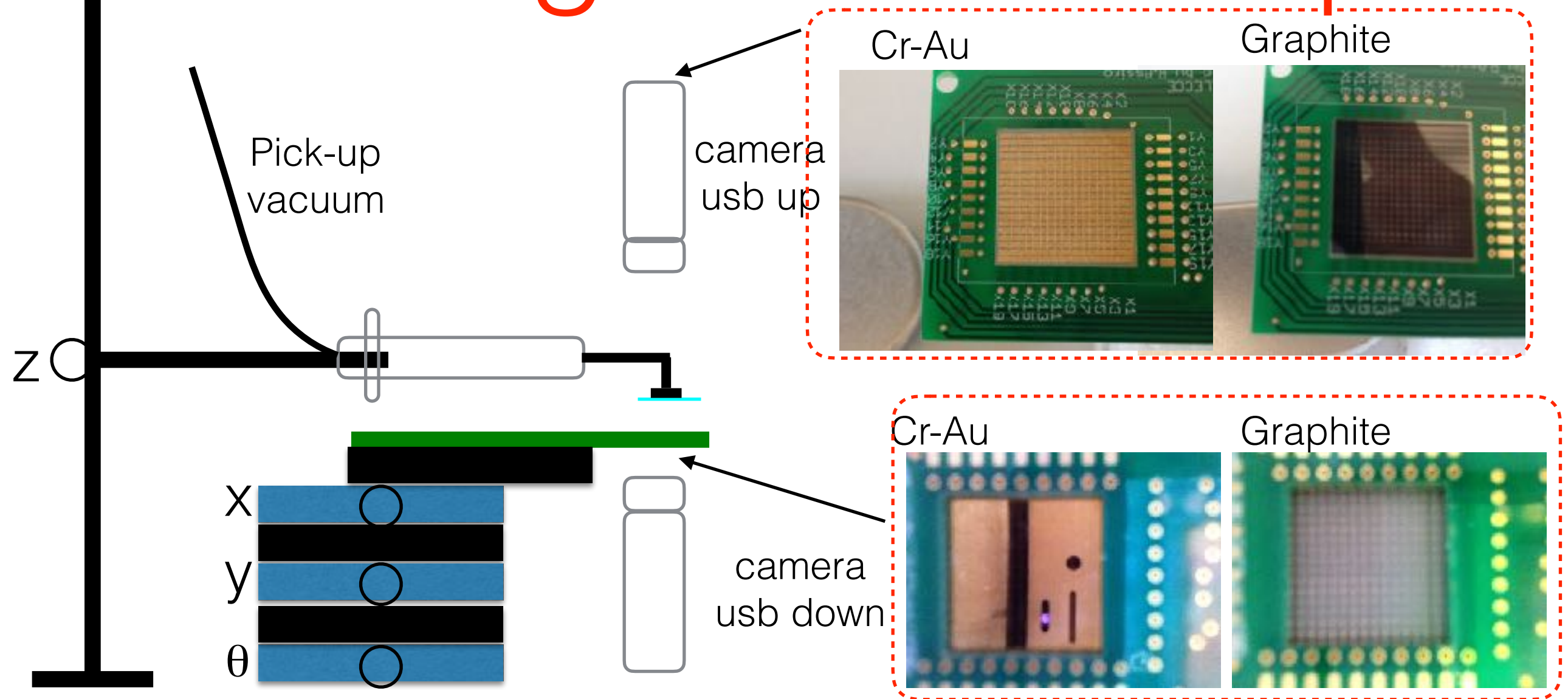
- 1) Silver paint RS
- 2) Two component Araldite loaded with silver from cern

Two deposition mode on PCB:

- 1) Filling of holes from sensor side
- 2) Filling of holes from opposite to sensor side

Operatori:
Stefania e Federica

Gluing sensor setup



Steps:

- 1) Manual micrometric x,y,z, θ alignment
- 2) Fast conductive glue deposition from top (or gluing of sensor with not conductive glue on top)
- 3) Gluing of sensor from top (or conductive glue deposition from PCB side opposite to glued sensor with no rush)

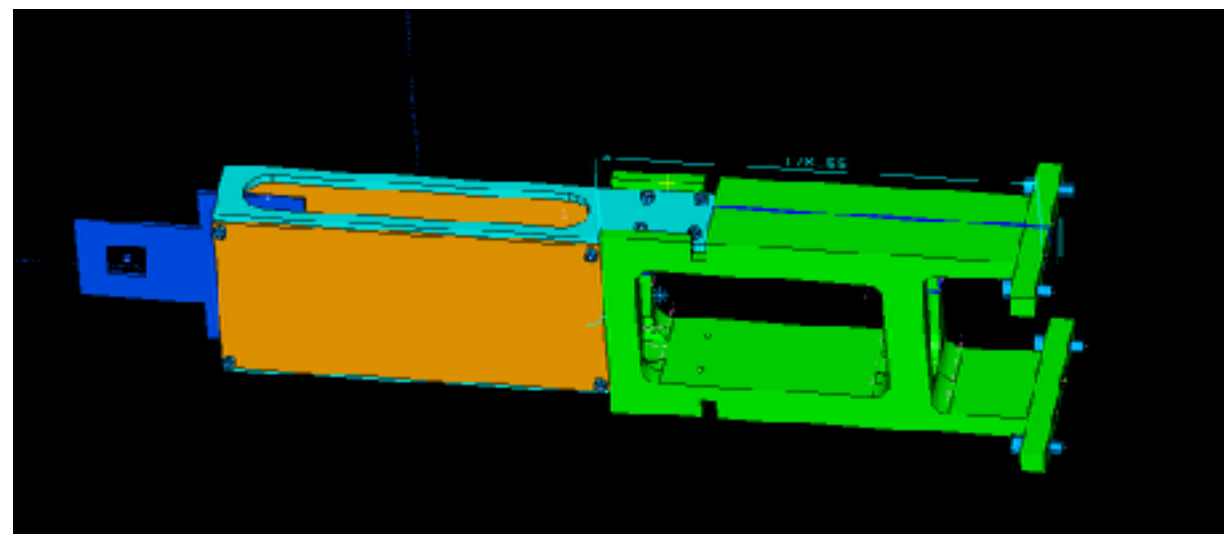
Setup ready.

Test preliminari in corso:

- 1) Test con vetrini
- 2) Test con dummy

Diamond target preparation

- Mechanical design support ready in CAD but realization in September because technician busy or in vacation
- This week ready support prototype with 3D printer
- Diamond target with final cabling (dummy feed-throughs) ready for the end of July on real size handling frame
- Final three sensors gluing on three carrier boards before the end of first week of September
- Ready for source testing or testbeam in second week of September



Preventivi 2018

Richieste finanziarie 2018

Co+Inv+App 18ke:

- 2 ke: Kit di retrofit motore per manipolatore **Anticipabili 2017**
- 2 ke: Scheda di controllo motore
- 10 ke: Nuova Scheda di FE IDEAS con $16+16+16=48$ canali (*)
- 2 ke: Gas di Fluoro e Neon per laser ad eccimeri per realizzazione target di back-up
- 2 ke: Metabolismo

Missioni 6ke + 22 ke sj = 28 ke:

- 2ke= 1ke x 2 settimane uomo per integrazione a Frascati
- 2ke= 1ke x 2 settimane uomo per commissioning a Frascati
- 12ke (subjudice) = 1ke x 2 settimane x 6 mesi x presa dati a Frascati
- 2ke euro trasferte per meeting di collaborazione
- 10ke (subjudice) = 1ke x 5 settimane x 2 studenti (laureanda + phd)

(*) Nuova scheda a 48 canali realizzata da IDEAS comporterebbe un target più compatto, meno materiale e più performante.

Anagrafica 2018 vs 2017

				2017	2018			
SEZIONE	NOME COGNOME	RICERCATORI	TECNOLOGI	TOT. PERS.	FTE			
LE	Caricato Anna Paola	x			30	20%		
	Chiodini Gabriele	x			20	30%		
	Creti Pietro		x		20	0%		
	Martino Maurizio	x			30	20%		
	Maruccio Giuseppe	x			20	0%		
	Monteduro Annagrazia	x			20	0%		
	Scherini Viviana	x			30	30%		
	Spagnolo Stefania	x			20	30%		
LE		1.7 fte	7 pers.	0.2 fte	1 pers.	8	1.9	100%
	Federica Oliva	x						30%
NEW	Francisco Gontad	x						2,60

- Non c'è nell'anagrafica la nuova laureanda
- P. Creti lavora con noi ma percentuali spostate su LHC FASE II
- G. Maruccio e A. Monteduro (UNISALENTO + NANOTEC) ritengono loro ruolo concluso con la preparazione del target.