

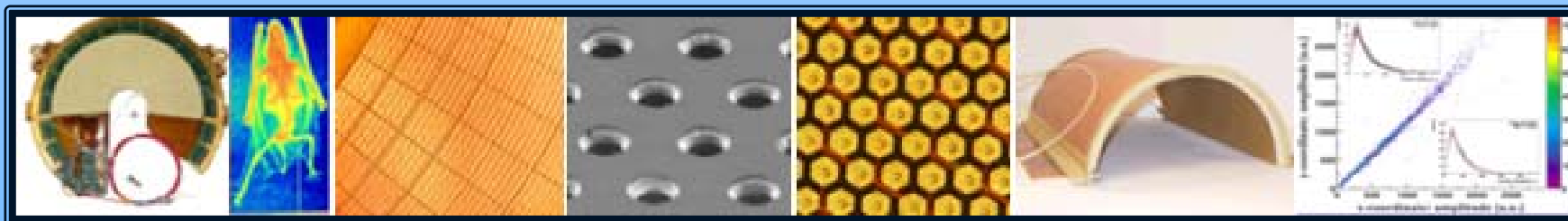
# CERN

European Organization for Nuclear Research  
Organisation Européenne pour la Recherche Nucléaire

## 2<sup>nd</sup> RD51 Collaboration Meeting 13-15 October, 2008

WG6: Production

DSU/TT - Emir Sirage, [emir.sirage@cern.ch](mailto:emir.sirage@cern.ch)



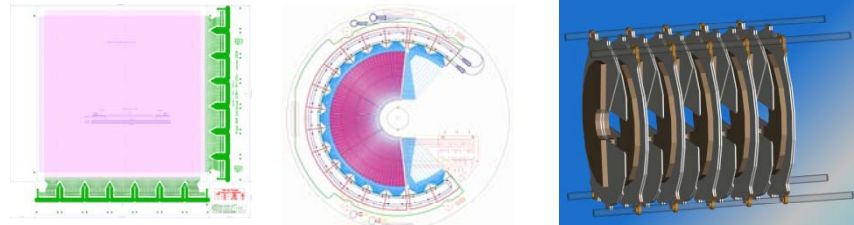
- 1. Intro**
- 2. Who is CERN dealing with?**
- 3. Status of licensing negotiations**
- 4. Expectations**



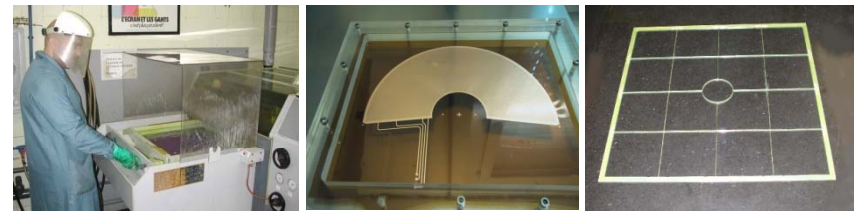


# CERN is involved in all aspects of GEM detectors design, production and applications.

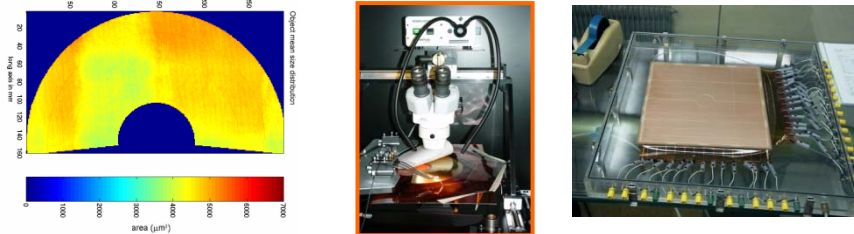
Detector Design



Component Production



Component Quality Control



Detector Assembly



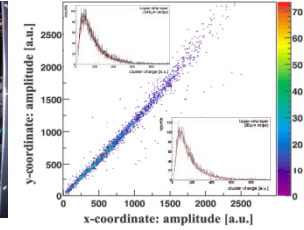
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# 2. Who is CERN dealing with?

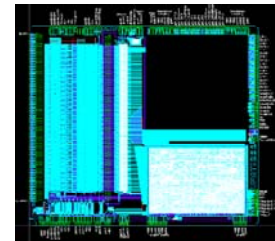
# 3. Status of licensing negotiations

# 4. Expectations

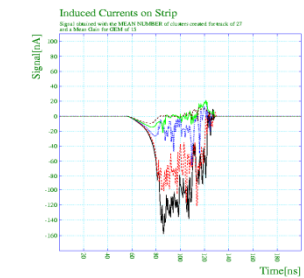
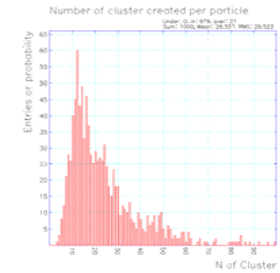
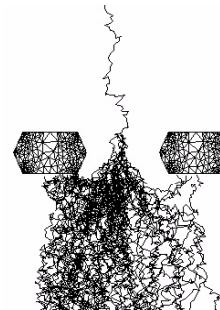
## Detector Test



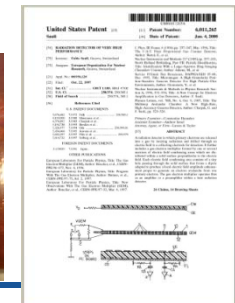
## Readout Electronics



## Detector Simulations



## Technology Transfer



2nd RD51 Collaboration Meeting  
October 14<sup>th</sup> 2008, Paris

Technology  
Transfer

### ***TT@CERN, MANDATE***

- Maximize technology & Knowledge return to the Member States industry without diverting from CERN HEP mission
- Promote and enhance the image of CERN as a source of innovation and economic activities and increase attractiveness for industry
- Take all the necessary IP protection measures to support technology dissemination

LICENSEES INTERESTED IN  
**GEM FOIL MANUFACTURING/SALES**

- PGE (<http://www.pge.nl>)
- Techtra (<http://www.techtra.pl/wystawae.html>)
- Tech-Etch (<http://tech-etch.com/>)
- SciEnergy (<http://www.scienergy.jp/>)
- Centronic Ltd (<http://www.centronic.co.uk/>)

LICENSEES INTERESTED IN  
**MANUFACTURING/SALES  
GEM BASED-PRODUCTS**

- CDT (<http://www.n-cdt.com/>)
- 2 companies from Sweden**

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LICENSEES INTERESTED IN  
**GEM FOIL MANUFACTURING/SALES**

COMPANY	STATUS
PGE	R&D LICENSE + LICENSE OPTION <b>GRANTED AND SIGNED</b>
Techtra	LICENSE AGREEMENT <b>UNDER NEGOTIATION</b>
Tech-Etch	LICENSE AGREEMENT <b>UNDER NEGOTIATION</b>
SciEnergy	LICENSE AGREEMENT <b>UNDER NEGOTIATION</b>
Centronic Ltd	<b>INITIAL DISCUSSIONS</b>



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LICENSEES INTERESTED IN  
**MANUFACTURING/SALES**  
**GEM BASED-PRODUCTS**

COMPANY	STATUS
1 Sweden	LICENSE AGREEMENT <b>GRANTED AND SIGNED</b>
CDT	LICENSE AGREEMENT <b>GRANTED AND SIGNED</b>
2 Sweden	<b>INITIAL DISCUSSIONS</b>





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*Thank you!!!*

***For further information please contact***

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[\*emir.sirage@cern.ch\*](mailto:emir.sirage@cern.ch)

***or visit our web-site***

[\*http://ttpromo.web.cern.ch/ttpromo/\*](http://ttpromo.web.cern.ch/ttpromo/)



# Back-up (slide) Patent Portfolio overview – TT@CERN

## *Key portfolio data as of May 2008:*

- Number of families where CERN is applicant: 33
- Total number of patents or applications: 227
- Number of new filings in 2007: 4

