

CITIUS



CITIUS General Meeting

January, 22nd 2013



Fermi Room
Elettra – Sincrotrone Trieste
Strada Statale 14 km 163.5
34149 Basovizza (TS)
ITALY

AGENDA

CITIUS

Centro Interregionale di Tecnologie Fotoniche Ultra-veloci per la Spettroscopia

Medregijski center za ultrahirte fotonske tehnologije v spektroskopiji

General Meeting
22.01.2013, Fermi Room
Elettra – Sincrotrone Trieste
in Area Science Park
Basovizza, Trieste (Italy)

14.00 - 14.30: *Welcome and general status of the project* (G. De Ninno)

14.30 - 14.50 **LP**: *Review of past and present activities; financial status*

14.50 - 15.05 **PP1**: *Review of past and present activities; financial status*

15.05 - 15.20 **PP2**: *Review of past and present activities; financial status*

15.20 - 15.35 **PP3**: *Review of past and present activities; financial status*

15.35 - 15.50 **PP5**: *Review of past and present activities; financial status*

15.50 - 16.05 **PP6**: *Review of past and present activities; financial status*

16.05 - 16.40: *General discussion (plan for joint future activities)*

16.40 - 17.30: *Visit of the CITIUS light source*

People

LP UNG: Giovanni De Ninno, Aljaz Renner, Barbara Ressel, David Gauthier, Rosen Ivanov
PP1 Elettra-Sincrotrone Trieste: Marcello Coreno, Rodolfo Laghi
PP2 LUXOR (C.N.R.): Luca Poletto, Paolo Miotti
PP3 ISOF (C.N.R.): Eleonora Polo
PP5 Kontrolni Sistemi: Damian Golob
PP6 Ljubljana Univ.: Miran Merhar, Bojan Gospodarič
Consultants: Sergio Pugnetti (Agire)
Adriana Longo (Euroservice)

Since all partners are present, GDN starts officially the meeting at 14.00.

GDN starts with a presentation of the project, from the beginning up to now.

Major results are that the laboratory in Ajdovščina is currently under construction, while the laser source, installed in Trieste is operational and producing first results. Moreover CITIUS is also contributing to the development of the Fermi Project on the LDM beamline.

The project is almost in time with respect to planned scheduling.

Important dates:

01.12.2008 Project submission

28.04.2010 Project approval

01.06.2010 Project start

31.05.2014 Project end

GDN stresses the importance of having new projects and collaborations to avoid the death of the project itself.

For the scientific point of view the laser source is a powerful tool to investigate different states of matter, from single atoms to solids and allows to access the dynamics of processes (Pump-Probe technique). Several areas as photochemistry or photocatalysis are now accessible.

The first experiment on ultrafast demagnetization has been successfully performed and in the next future will start the investigation on large organic conjugated molecules (such as phthalocyanine, porphyrins, chlorins, bacteriochlorins), which are very important for the anticancer medical research.

The source can be used also in the field of environmental science, to investigate properties of new materials to be employed for solar cells.

GDN gives the WPs description and shows the costs table.

Problems for spending money to "External personnel" like Agire.

There is money to be spent for two workshops.

GDN underlines the links between CITIUS and other projects, like SunGreen, MODEF, CENILS, Fermi@Elettra and several bilateral collaborations.

CITIUS laser source can be seen as a complementary light source to Fermi, a place to test experiments in a not very expensive way.

Mr. Pugnetti asks if some experiments have already been scheduled.

GDN: first we have to finish the source characterization and then we will start a plan also to open to external users.

LP Budget situation.

UNG has 522 k€ to spend.

350 k€ will be spent soon to pay for the delivery of electron spectrometers.

There is a tender for the air conditioning of the lab (60 k€).

100 k€ will be spent for the X-ray source.

GDN does not expect problems in spending the money.

Luca Poletto would like to know what happens to other partners money if UNG will not be able to spend the budget.

Answer (GDN): only the budget of UNG will be reduced.

PP1 - Elettra - Presentation/Budget situation.

Marcello Coreno starts with the scientific case:

- Photodynamic therapy
- Electro organic compounds
- OLED
- Solar cells

Current experiment: determine the XUV pulse duration measuring the sidebands originating when an IR pulse and the XUV pulse are shined in the same place and at the same time on a gas.

MC gives a description of the LDM beamline on Fermi and of its activity related to CITIUS (i.e. the pump-probe set up). MC shows programs for next 16 months and the expenses.

PP2 - LUXOR- Presentation/Budget situation.

Luca Poletto shows the project and characterization of the HHG source.

Regarding the budget, LUXOR has 56 k€ in the WP4 (vacuum / optics materials) to be spent within May 31st 2013. The possibility of spending and accounting this money within the WP deadline is completely unrealistic for CNR bureaucracy.

All the partners agree in moving the deadline of all open work packages to the end of the project, i.e. May 31st 2014.

Aljaz Rener reminds that next deadline for accounting is February 27th 2013 and that all documentation has to be submitted by March 1st 2013.

PP3 - ISOF - Presentation/Budget situation.

Eleonora Polo shows the new web page of her group in Ferrara and the link to the existing CITIUS web page.

GDN reminds that CITIUS web page has to be updated and has to become independent from the Elettra web site where it is currently hosted.

EP gives an overview on photodynamic therapy and her work in finding a proper molecule, non toxic for humans that reacts in the spectral region between 600 and 800 nm.

Regarding the financial situation, ISOF has still to spend WP5 money.

GDN asks for details regarding personnel expenses, discussion starts.

PP5 - Kontrolni sistemi - Presentation/Budget situation.

Damian Golob shows his activity for CITIUS in developing software for controlling the beamline monochromator.

Again GDN asks details on the budget situation, how much is the remaining money.

PP6 - Univ. Ljubljana - Presentation/Budget situation.

Miran Merhar shows his calculation to determine the proper vibration isolation of the new laboratory in Ajdovščina. With Luca Poletto starts a discussion on the maximum limit of admitted vibration for a femtosecond laboratory, which is set to 3 microns. Some test measurements at Fermi and again in Ajdovščina are planned.

Before the closing of the meeting, Aljaz Renner reminds all the partners that they have to send the requests for co-financing and that Italian partners have to send the requests to JTS.

At 18.00 GDN thanks the partners and closes the meeting.

In next pages the slides of all the PPs' presentations.