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To all users of TSL irradiation facilities

TSL beam time pricing policy (valid from January 1, 2012)

1. Basic definitions

- a. A run consists of a Startup Time and User Time at a given irradiation facility receiving the primary accelerated beam with the certain energy.
- b. A *campaign* may consist of one or several *runs* that are performed successively in the framework of one visit of the user to TSL.
- c. *Startup Time* is the period of time when TSL prepares the beam according to user's specifications. *Startup Time* includes the time for standard calibration and quality assurance measurements. The user may not have access to the irradiation facility during the *Startup Time*.
- d. *User Time* is the period of time when the specified beam is available to the user. In the beam-sharing mode, the *User Time* does not include beam time slots during which the beam is guided to a different beam line. The user is notified about the availability of the beam by signs "Billing On" in the Automatic Workplace. During the *User Time*, the user may, at any time, turn the beam on and off, as well as to access the experimental area. If an interruption in the beam delivery is planned or caused by the user, it does not interrupt the *User Time*. Interruption in the beam availability planned or caused by TSL leads to an interruption of the *User Time*.
- e. The cost of the *run* consists of the *Startup Fee* (see Sect. 1f), the *User Time Cost* (see Sect. 1g), and surcharges, if applicable (see Sect. 4 and 5).
- f. The *Startup Fee* is a fixed amount that applies separately for each and every *run* and covers the costs for setting up a standard beam.
- g. The *User Time Cost* is calculated by multiplying the hourly rate (see Sect. 2) with the user time duration, rounded up or down to the nearest half-hour.

2. The standard beam time prices

Facility	Hourly Rate (EUR/h)	Basic Startup Fee (EUR)	Reduced Startup Fee (EUR) ¹
ANITA	480	1920	960
QMN	520	3120	1560
PAULA	520	2080	-

3. The lowest *User Time Cost* is the cost of 8 hours *User Time* for each and every *run* and 12 hours for a *campaign*.

¹ Valid with re-trimming between ANITA and QMN facilities without the change of the primary proton beam energy.



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4. A surcharge for the *User Time* delivered during nights (from 22:00 to 7:00) **and weekends** (from Friday 22:00 to Monday 7:00) amounts to 20%. The surcharge applies only for the *User Time* that was scheduled or requested by the user.

5. A surcharge for setting up a non-standard beam according to user's specifications and performing non-standard measurements applies as follows:

- a. Measurement of the primary beam energy²: **2h**,
- b. Change of the neutron or proton collimator aperture², inclusive the beam characterization: **1h**,
- c. Change of the particle flux² within a factor of 150, during runs with 180-MeV primary beam: **5 min**,
- d. Other changes of the particle flux²: **1h**

6. Large-volume discounts³ apply as follows:

- a. 10% discount for the actually spent *User Time* in excess of 100 hours in one irradiation campaign,
- b. 20% discount for the actually spent *User Time* in excess of 200 hours in one irradiation campaign.

7. Discount for publications

- a. A user is entitled to a discount for a publication that stems from user's work performed at UU-TSL together with at least one person from irradiation facilities' scientific/engineering staff who gave an authorized consent to be included in the author list and endorsed the contents of the manuscript prior to its submission.
- b. The right to the discount appears with an actually published paper in an international peer-reviewed journal.
- c. The right to the discount belongs to the first author of the paper, regardless of his/her affiliation. The first author may transfer the right to the discount to another co-author.
- d. The discount is given in form of waiving of invoicing of maximum 8 hours of the *User Time* with the first user's campaign upon the publication of the paper.
- e. The discount can be applied to only one user campaign and to only one run in the campaign.
- f. Only one discount can be applied with each and every campaign, regardless of the number of eligible publications.
- g. The discount may never cause that the invoiced *User Time Cost* becomes lower than specified in Sect.3.
- h. UU-TSL reserves the right to refuse the discount with any misuse of the right to the discount.

8. Booking process

- a. Upon reception and acceptance of the definitive Beam Time Request (BTR), UU-TSL shall make a tentative booking of the beam time slot and send an offer to the user organization. The offer shall include the *Startup Fee* and the *User Time Cost* for the requested campaign.

² if requested by the user.

³ Cannot be combined with other discounts and offers from TSL.



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- b. The user organization shall send a Purchase Order (PO) to TSL within 30 days upon reception of the offer. Thereby the user organization enters into a binding contract with UU-TSL as defined in the present document and governed by "General regulation for commissioned activities at Uppsala University" as available at http://www.tsl.uu.se/documents/General_regulation.pdf.
- c. Upon reception of the PO, UU-TSL shall make a definitive booking of the beam time slot.
- d. The PO can be temporarily substituted by a written commitment from the user. Upon its reception, UU-TSL shall send an invoice, which shall include the *Startup Fee* for the requested *campaign*. The invoice due date shall be 30 days from the issuance date or 90 days prior to the planned startup date of the campaign, whichever comes last. In this case, the booking shall become definitive at the date when UU-TSL receives payment of the *Startup Fee*. With overdue payment of the *Startup Fee*, UU-TSL reserves the right, without prior notice, to cancel or suspend the booking and/or to allocate the beam time slot in question to another project.

9. Cancellations

- a. Cancellation of the *campaign* announced by the user at least 90 days prior to the planned startup date (*early cancellation*) is free of charge. Any *Startup Fee* paid before such a cancellation shall be paid back in full by UU-TSL.
- b. With cancellation announced by the user less than 90 days prior to the planned startup date (*late cancellation*), UU-TSL reserves the right to not pay back the *Startup Fee* to the user's organisation.
- c. With cancellation of the *campaign* announced by the user less than 30 days but not less than 10 days prior to the planned startup date, UU-TSL reserves the right to invoice the user for the *Startup Fee* and for 25% of the planned *User Time Cost*.
- d. With cancellation of the *campaign* announced by the user less than 10 days prior to the planned startup date, but prior to the scheduled start time of the campaign, UU-TSL reserves the right to invoice the user for the *Startup Fee* and for 50% of the planned *User Time Cost*.
- e. With shortening of the *User Time* by 50% or more, announced by the user prior to the beginning of the campaign, UU-TSL reserves the right to consider it as a cancellation.
- f. With cancellation of a whole *run* in the framework of an ongoing *campaign*, prior to the beginning of the *run*, the user is invoiced for the *Startup Fee*, as well as for 50% of the planned *User Time Cost*, for each and every planned *run*.
- g. Cancellation of a run, announced by the user after the beginning of the run, is treated as termination (see Section 10).

10. Termination and partially unused beam time

- a. Termination, suspension, or decrease of the duration of the beam time is free of charge for the user, if caused by a problem at UU-TSL side, or planned/decided by UU-TSL.
- b. The user time is treated as being used until the user notifies the person on duty from UU-TSL that the *run* or the *campaign* is completed or terminated.
- c. Upon completion or termination of the *run*, the unused *User Time* is free of charge, provided that the actually spent *User Time* amounted to at least 80% of the planned *User Time* for the *run*, but at least 8 hours.
- d. If the actually spent user time for the *run* amounted to less than 80% of the planned time, but at least 8 hours, the user is invoiced for 80% of the unused beam time up to 80% of the planned user time for the *run*.



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11. Beam quality guaranty

- a. If the user requested the highest possible beam current/intensity/flux, and the respective parameter of the actually delivered beam is lower than guaranteed, the user has the right to request an equivalent prolongation of the *User Time*, or a complementary irradiation campaign, in order to adequately compensate for that, free of additional charge.
- b. The prolongation of the *User Time* is granted if permitted by technical, scheduling, and manpower situation at the UU-TSL side.
- c. The complementary irradiation campaign is planned in consultation with the user and taking into account technical, scheduling, and manpower situation at the UU-TSL side.

12. Payment for the beam time costs shall be made by the customer organisation within 30 days of the date of the invoice issued by TSL, unless otherwise agreed.

13. The user is given the option to be invoiced in another currency than EUR. The recalculation is made with the exchange rate published by the Swedish Central Bank at <http://www.riksbank.com/> for the date of the quotation, the Purchase Order, or the invoice, whichever appears at UU-TSL first.

14. UU-TSL reserves the right to apply other rules for users running in the framework of international R&D programs, bilateral or multipart collaborations where UU-TSL participates.

15. Projects that use TSL beams are governed by "General regulation for commissioned activities at Uppsala University" as available at http://www.tsl.uu.se/documents/General_regulation.pdf.

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