

# Report

## on the use of Major Research Instrumentation

### - Major Research Instrumentation as per Art. 91b GG -

#### <Preliminary note

The funding programme "Major Research Instrumentation as per Art. 91b GG" provides funds for the procurement of major research equipment at higher education institutions. The usage report is a basis for reviewing the spending of the funds in accordance with the programme regulations and is an obligation of the DFGs reporting to its funding bodies. The report also serves to assess the success of the funding and as a basis for evaluating the funding programme. The report must be comprehensible without consulting further literature.

As a rule, the person responsible for the application must submit the utilisation report three years after the commissioning and start of scientific use of the research instrument. It can be written in German or English language (analogous to the language of the application). The usage report is evaluated and the result is communicated to the university and the person responsible for the application.

Sections 1.1, 2. and 4. of the usage report are published in the DFG information system GEPRIS on the Internet. The publication of these sections serves the dissemination of knowledge and transparency in research. The sections of the report that are not published are intended exclusively for the DFG Head Office and the DFG's statutory bodies. The publication of the above-mentioned sections in the DFG's GEPRIS information system can be objected to by sending a written statement or e-mail to the department in charge when submitting the usage report.

The usage report must be created as a PDF file without password protection or access restrictions to the contents with regard to reading, copying and printing and uploaded to the elan portal (<https://elan.dfg.de>) (under "Proposal Submission/Proposal Overview/Title of the Proposal/Form for sending a report"). Please submit all appendices to the report (e.g. pictures) as separate PDF documents (max. 10 MB each).

The grey text in angle brackets represents explanations for your input. Please delete this in the final report document. Black text in angle brackets is to be replaced by your information. The other text printed in black and the tables should remain in the format presented here.

Disclaimer: The English translation of this document is provided for informational purposes. In the event of a discrepancy between the English and the German versions, the German text takes precedence.>

## 1. General Information

### 1.1 Proposal and applicants

DFG reference number: <INST xxxx/xxxxx-x>

Project number/Project ID: <cf. letter of approval>

Proposal title: <...>

University: <name>

Responsible spokesperson: <name>

ORCID ID (optional): <...>

Installation site of the instrument: <institution name; address >

Internet address: <www.xxx.xx>  
<URL under which the instrument and possible access are displayed on the Internet.>

Reporting period: <mm/yy> bis < mm/yy>

### 1.2 Procured instrument

Manufacturer/supplier, unit type: <...>  
<Manufacturer's name and model of the instrument procured.>

Components/accessories/options procured with the approved funds: <...>

Procurement sum: <gross total in €>

Date of commissioning: <dd.mm.yyyy>  
<Date of commissioning is the point in time at which the main unit was accepted and thus usable for research. Special features, such as delays due to defects, incomplete deliveries, later commissioning of accessories, construction measures, etc. are explained in section 5.4.>

## 2. Summary

<Please describe in a generally comprehensible manner in German and English the most important research results and scientific work for which the instrumentation was used (approx. 3,000 characters/max. one page each). In doing so, address the contribution of the instrument as well as the relevance of the results for an interested public. Do not specify persons or company names and manufacturer and type designations, formulas or illustrations.>

<text German>

<text English>

## 3. Report on the scientific use of the instrumentation

### 3.1 Institutes and working groups that use or have used the instrumentation to a significant extent

#### 3.1.1 Institutes and working groups at the applicant university

<Name of the institution, name of the working group leader, proportionate extent of use in %, with reference to the consecutive number of projects listed under 3.2 and publications listed under 4.1.>

No.	Name of the institution	Name of the working group leader	Proportionate extent of use in %	Project no. (s. 3.2)	Publication no. (s. 4.1)
1.					
2.					
3.					
...					

#### 3.1.2 Use by external partners

<Name of the institution, name of the working group leader, proportionate extent of use in %, with reference to the consecutive number of projects listed under 3.2 and publications listed under 4.1.>

No.	Name of the institution	Name of the working group leader	Proportionate extent of use in %	Project no. (s. 3.2)	Publication no. (s. 4.1)
1.					
2.					
3.					
...					

### 3.2 Third-party funded projects in which the instrumentation is or was used to a significant extent

No.	Funding recipient(s), project title	Funding institution, reference number	Duration from-to	Funding amount TEUR
1.			<mm/yy - mm/yy>	
2.				
3.				
...				

### 3.3 Theses, for which the instrumentation was used to a significant extent

<List here any master's, bachelor's and other degree and qualification theses that were not listed under 4.>

No.	Type of degree	Author(s), title	Year of degree	URL/DOI
1.				
2.				
3.				
...				

### 3.4 Description of other uses of the instrumentation in research

<Describe the use of the instrumentation to the extent that this is not reflected in publications or publicly available findings. In addition to an explanation of ongoing scientific projects or final theses and brief descriptions of scientific results that have not yet been published, other work, e.g. for methodological development purposes, can also be listed here (up to a maximum of 3 pages).>

<text>

## 4. **Published scientific results to which use of the instrumentation has significantly contributed during the reporting period**

<From 4.1 on, please list the results to which the equipment has made a decisive contribution and, wherever possible, please provide the direct link (URL) and the DOI, ISBN or another persistent identifier. If the medium permits, publications must include a reference to the DFG funding/project number. Please refer to section "Publication of project results" in DFG form 2.18.>

#### 4.1 Publications with scientific quality assurance

<Please list the most important scientific publications with reference to the DFG funding/project number. Please group by publications in journals with scientific quality assurance, book publications, and publications accepted for publication but not yet published, including dissertations. Open access publications should be marked accordingly. Please list the papers to which the use of the instrument has contributed the most first. If you use a literature management programme and have problems filling the table automatically, you can also create a consecutively numbered bibliography according to the specifications and replace the table with it.>

No.	Author(s), title	Journal	Year	Open Access j/n	URL/DOI
1.					
2.					
3.					
...					

#### 4.2 Published data sets and software

<Please list here any data sets or software accessible in repositories (if possible, with a reference to the DFG funding/project number) that were created in the course of using the instrument and that are made available for subsequent scientific use.>

No.	Author(s), title	Repository	Year	Open Access j/n	URL/DOI
1.					
2.					
3.					
...					

### 4.3 Further publications

<Please list here any other publications and published results to which the instrument has made a significant contribution and, if possible, include a reference to the DFG funding/project number.>

No.	Author(s), title	Journal/publisher	Year	Open Access j/n	URL/DOI
1.					
2.					
3.					
...					

### 4.4 Patents (applied for and granted)

<Please list here, if applicable, patent applications and granted patents, which are based on the use of the instrument.>

No.	Author(s)/patent holder, title	Year of application / granting	URL/ DOI
1.			
2.			
3.			
...			

## 5. Report on the operation of the instrumentation

### 5.1 Utilisation of capacity/operating hours

<Please indicate the total utilisation of the instrument in the reporting period in hours/year. Should the reporting period include additional years, for example due to an extended reporting obligation, please add corresponding additional columns to the table.>

	1st year <mm/yy-mm/yy>	2nd year <mm/yy-mm/yy>	3rd year <mm/yy-mm/yy>
<b>Operation (research)</b>	<hours>	<hours>	<hours>
<b>Operation (other)</b>	<hours>	<hours>	<hours>
<b>Preparation/maintenance</b>	<hours>	<hours>	<hours>
<b>Total</b>	<hours>	<hours>	<hours>

## 5.2 Follow-up costs/running costs

<Please indicate the follow-up costs in € for the reporting period. This includes under "Other costs" expenses for e.g. further components, accessories, software upgrades and updates as well as IT hardware. If the reporting period includes additional years, for example due to an extended reporting obligation, please add additional columns to the table.>

	1st year	2nd year	3rd year	Financed by
<b>Operating costs</b> (energy, operating resources, etc.)	<amount>	<amount>	<amount>	<text>
<b>Repair costs</b>	<amount>	<amount>	<amount>	<text>
<b>Maintenance costs or service contracts</b>	<amount>	<amount>	<amount>	<text>
<b>Other costs*</b>	<amount>	<amount>	<amount>	<text>
<b>Total</b>	<amount>	<amount>	<amount>	<text>

### \* List of items summarised under the heading "Other costs"

<Please list the items summarised under "Other costs" here, broken down individually with designation, procurement date and amount if applicable.>

<text>

## 5.3 Statement on implementation of the operating and usage concept

<Please describe any changes to the usage concept as described in the application, especially with regard to the persons/groups using the equipment. Please explain any deviations from the utilisation of the instrument stated in the application.>

<text>

## 5.4 Particular experiences, work reports, problems, etc. with the instrumentation and/or commissioning, the manufacturer, ongoing operation, etc.

<Please describe here any special features, problems or particularly positive or negative experiences that occurred during commissioning, operation and use in connection with the unit or the manufacturer. This information will be treated confidentially.>

<text>

## 5.5 External presentation of the instrument and its access possibilities

<Please describe here the presentation (e.g. on the internet or the university's intranet) of the instrument, including information on possibilities of use by other external parties not listed under 3.1.2, as well as the utilisation by these parties in the reporting period in hours/year.>

<text>

## 5.6 List of annexes

<In addition to manuscripts that have not yet been published, you may add photos or other illustrations as annexes to your report that are related to the procured instrumentation and serve to supplement the report. Do not include images of individuals, and please use the PDF format (max. 10 MB each).>

<text>