**! maximum 2 pages A4, running text in 10pt size, upload limit 4MB !**

**Instructions:**

If you request consideration of the **scientific impact** for the peer-review:

* Select “**Scientific Background**” as headline of paragraph 1.
* Fill in paragraphs 1.-5. (not more than 2 pages in total)

If you request consideration of **immediate** **socio-economic** **impact** for the peer-review:

* Select “**Immediate** **Socio-Economic Impact**” as headline of paragraph 1.
* Your proposal has to fulfill at least one of the following criteria:
	+ Presentation of a robust and credible exploitation plan of your product.
	+ Presentation of a summary, proving that this project is required for preparation of a startup company.
	+ Presentation of a summary proving that the subject of this proposal has a minimum technical readiness level of 4.
		- [more information](https://photon-science.desy.de/users_area/user_guide/select_the_proposal_type/regular_proposals_at_petra_iii/index_eng.html)
* Elaborate details under

1. Immediate socio-economic Impact

2. Motivation for the proposal, expected results and impact, also complete paragraphs 3. to 5. (not more than 2 pages in total)

**Title of your regular proposal for a PETRA III beamline**

1. **Scientific background or** **Immediate socio-economic impact** (select one)

Please describe the scientific background of your proposal. If you request consideration of socio-economic impact during the review, describe the background of your proposal in terms of the socio-economic environment

1. **Motivation for the proposal, expected results and impact**

Please give a concise and clear description of the project, the overall aim and expected results of the experiment. Outline the scientific relevance and impact of the expected scientific results. If you request consideration of socio-economic impact during the review, describe the expected impact of your results to the socio-economic environment

*In case the proposal is a resubmission: Please, indicate changes as compared to the last submission, in particular when addressing PRP comments of the last review.*

1. **Own previous work**

Briefly summarize previous own work which is relevant to this proposal, especially work done at DESY and/or other light source facilities (if applicable).

**4.** **Experimental plan**

Describe the following aspects of the planned experiments:

a) *Justification of beamline requested*

- explain why the requested beamline and/or instrument especially fit your requirements

- describe the technique to be used (X-ray method, any specific *in situ / operando* aspects and required time resolution if applicable, detector type and geometry etc.)

b) *Justification of requested number of shifts*

- explain why you need the requested number of shifts

c) *Data handling and computing*

- describe data acquisition and processing schemes specific to your experiment (if applicable)

- describe computing resources to be provided by DESY; e.g. total amount of data expected in GigaByte, maximum throughput in GigaBytes per second

- describe the data analysis strategy, i.e. how to extract the desired information from the measured data

d) *Samples & safety related issues*

- give a brief description of the samples to be studied (size, composition, quality)
- in case of biological samples explain from which organism it was derived and how the samples were
 prepared. State the full name of the species/strain/cell line and indicate the risk level according to
 DIRECTIVE 2000/54/EC. Genetic engineering at levels S3 and S4 is not allowed at DESY.
- list all possible safety aspects (e.g. dangerous, toxic or radioactive substances, pressure cells,
 lasers).

e) *technical information (if applicable)*

- describe experimental set-ups specific to your experiment
- indicate whether you intend to bring your own equipment
- explain any need for specific sample environments, high magnetic fields, lasers etc.
- identify experimental or technical difficulties to be expected (e.g. very low count rate, difficult
 adjustment)

**5. References related to the proposal scientific text**Citations used in the proposal text have to be listed here. References should be consecutively numbered using this format.

[1] A. Author, B. Author, and C. Author, Title, Phys. Rev. B **50**, pages (year). (DOI as hyperlink)

etc ….

Remember: *Own publications from the last 2 years* ***based on previous PETRA III beamtimes*** *(if applicable) must be registered as part of the DOOR online submission procedure using DOIs or PubMed IDs.*