AGREEMENT ON THE TRANSFER OF THE ELI BEAMLINES FACILITY

This agreement ("**Agreement**") was concluded on the day, month and year stated below by and between:

(1) The Extreme Light Infrastructure ERIC,

with registered seat at: Za Radnicí 835, Dolní Břežany, 252 41,

registration no.: 10974938

represented by: Allen Weeks, Director General

(hereinafter referred to as "**ELI ERIC**"); and

(2) Fyzikální ústav Akademie věd České republiky, v. v. i.,

with its registered office at: Na Slovance 2, Praha 8, PSČ: 182 21,

registration no.: 68378271,

represented by: RNDr. Michael Prouza, Ph.D., director

(hereinafter referred to as "**FZÚ**").

(ELI ERIC and FZÚ are hereinafter jointly referred to as "**Parties**" and individually as "**Party**")

WHEREAS

(A) ELI ERIC is a European Research Infrastructure Consortium incorporated under the provisions of Council Regulation No. 723/2009 of 25 June 2009, Article 3 (1) of which indicates that the principal task of an ERIC shall be to establish and operate a research infrastructure.

(B) Pursuant to Article 2 (1) of the ELI ERIC Statutes, ELI ERIC shall operate as a single research infrastructure comprising the two Extreme Light Infrastructure Facilities (hereinafter referred to as "**ELI Facilities**") located in the Czech Republic (Dolní Břežany) and Hungary (Szeged). Pursuant to Annex 1 to the Statutes, the ELI Facilities shall be made available to ELI ERIC through specific agreements within the conditions, and for the tasks and activities defined in Article 2 and Annex 1 of the ELI ERIC Statutes.

(C) FZÚ is a public research institution that is established under Act no. 341/2005 Coll., on Public Research Institutions. The founder of FZÚ is the Czech Academy of Sciences, which is established under Act no. 283/1992 Coll., on the Czech Academy of Sciences. FZÚ, the Czech Academy of Sciences and the Ministry of Education, Youth and Sport of the Czech Republic have concluded a Memorandum on cooperation during the involvement of the

Czech Republic in the ELI ERIC legal entity (Memorandum o spolupráci při zapojení České republiky do právnické osoby ELI-ERIC).

(D) FZÚ is the beneficiary of grants of the Ministry of Education, Youth and Sports of the Czech Republic for the projects "ELI: EXTREME LIGHT INFRASTRUCTURE", registration number CZ.1.05/1.1.00/02.0061 within the Operational Programme Research and Development for Innovations,"ELI: EXTREME LIGHT INFRASTRUCTURE – Phase 2", registration number CZ.02.1.01/0.0/0.0/15_008/0000162, within the Operational Programme "Research, Development and Education" and other projects financed either from the European Union or the Czech Republic (hereinafter referred to as "Projects").

(E) Within the frame of the Projects, FZÚ has built a research infrastructure, ELI-Beamlines, located at the address Za Radnicí 835, Dolní Břežany, post code: 252 41, Czech Republic currently operated under Division 9 of the FZU (hereinafter referred to as "**ELI-Beamlines Facility**"). FZÚ is the sole owner of the ELI-Beamlines Facility. A description of the ELI-Beamlines Facility is provided for in Annex 1 to this Agreement. The Parties expressly declare that minor or insignificant deviations in the scope of the facility do not affect the validity or certainty of this Agreement.

(F) On January 18, 2022, Parties entered into an operating agreement ("**Operating Agreement**") under which FZÚ made available to ELI ERIC the ELI-Beamlines Facility under certain terms and conditions. The purpose of the Operating Agreement is to regulate the rights and duties of the Parties until the full integration of the ELI-Beamlines Facility into ELI ERIC is achieved.

(G) The Parties declare that the execution of this agreement is both legally and economically bound to the conclusion of a total of four agreements by which ELI ERIC takes over the operation and ownership of the FZU ELI Beamlines Facility:

a. AGREEMENT ON GRATUITOUS TRANSFER OF OWNERSHIP RIGHTS TO INTELLECTUAL PROPERTY AND ON GRATUITOUS ASSIGNMENT OF EXERCISE OF ECONOMIC RIGHTS TO INTELLECTUAL PROPERTY
b. AGREEMENT ON THE TRANSFER OF THE ELI BEAMLINES FACILITY (this Agreement)
c. DONATION AGREEMENT
d. PUBLIC-LAW CONTRACT ON THE TRANSFER OF RIGHTS AND DUTIES ARISING FROM THE GRANT AWARDS

(H) It is the intention of the Parties to conclude all of agreements mentioned under G) so that they form a uniform, inseparable, and comprehensive set of agreements which cover all aspects of the transfer of FZU ELI Beamlines facility from FZU to ELI ERIC and where one agreement cannot exist without any other.

(I) The Parties hereby express their wish to fully integrate ELI-Beamlines Facility into ELI ERIC and fulfil the purpose stipulated in the Operating Agreement.

IT WAS AGREED AS FOLLOWS:

1. THE PURPOSE OF THE AGREEMENT

1.1 The Parties agree that the purpose of this Agreement is to transfer assets (including tangible and intangible assets, land and buildings) and liabilities, employees, activities, contracts and agreements, and rights and duties that are related to the ELI-Beamlines Facility and its operation from FZÚ to ELI ERIC.

1.2 The goal of this Agreement is to make ELI ERIC the sole owner and operator of the ELI-Beamlines Facility and put ELI ERIC in the same legal position as was FZÚ before the transfer became effective.

1.3 If it were legally possible, ELI-Beamlines Facility would be transferred as a business enterprise within the meaning of Section 502 and Section 2175 of Act no. 89/2012 Coll., Civil Code (hereinafter referred to as "Civil Code"). Due to the fact that FZÚ is not an entrepreneur within the meaning of the Civil Code, the Parties cannot proceed under the above-mentioned provisions. Therefore, the transfer of the ELI-Beamlines Facility shall be realized on the basis of three interconnected agreements (agreement on the transfer of land and buildings, agreement on the transfer of intellectual property rights and this Agreement which transfers all of the remaining).

2. PUBLIC INTEREST

2.1 The Parties believe that the transfer of the ELI-Beamlines Facility under this Agreement shall lead to the further development of the ELI-Beamlines Facility in terms of securing additional financial resources, attracting top-level scientists as employees and securing more users for the facility. This will lead altogether to the further development of scientific activities and fulfilment of the purpose for which the ELI-Beamlines Facility was built. The position of the Receiver as the European Research Infrastructure Consortium will support an extraordinary use of ELI-Beamlines Facility by broad range of users in the open access regime a due to extensive involvement of excellent scientists will be secured the optimal development of scientific potential of the Receiver's research infrastructure. ELI ERIC is an organization established under public law with the principal task to operate a research infrastructure on a non-profit basis. Unlike any other legal entity, ELI ERIC has a unique legal position granted to it by Council Regulation No 723/2009 of 25 June 2009. Based on this, the Parties believe that the transfer of the ELI-Beamlines Facility under this Agreement is in the public interest.

2.2 This Agreement was approved by the supervisory board of FZÚ and by the founder of FZÚ, which is the Czech Academy of Sciences. These approvals are attached to this Agreement as Annex 3 (*Approvals*).

3. TRANSFER (CONTINUATION) OF ACTIVITIES

3.1 The Parties agree that, upon the entry into force of this Agreement, ELI ERIC shall take over the all activities of the ELI-Beamlines Facility and will strive for further development and growth of the ELI-Beamlines Facility in the future. An overview of the activities is described in Annex 1 to this Agreement.

3.2 ELI ERIC declares that, upon the entry into force of this Agreement, it shall to the extent compatible with its own statutes and secondary internal rules transform already existing internal directives and rules of the FZÚ that govern the operation of the ELI-Beamlines Facility so that there is no disruption and a smoth transition in the operation of the ELI-Beamlines Facility. FZÚ agrees with such transformation and shall provide all necessary cooperation to ELI ERIC so that there is a smooth transition of operations of the ELI-Beamlines Facility. ELI ERIC's right to later modify such rules or directives or to replace the original ones or to adopt new ones shall remain unaffected. The list of such internal directives and rules is attached as Annex 5 to this Agreement.

4. TRANSFER OF MOVABLE ASSETS INCLUDING WARRANTY RIGHTS

4.1 FZÚ hereby transfers to ELI ERIC the ownership right to all movable assets that from the accounting point of view (FZÚ's internal records on the property as entered into accounting programme iFis, nákladové středisko 0209) belong to the ELI-Beamlines Facility excluding those for which transfer is regulated by the other contracts mentioned in Section G) of the Preamble to this Agreement as of December 31, 2022, and ELI ERIC accepts such assets. The Parties declare that, at the time of the signature of this Agreement, they are aware of the scope of assets and confirm that these assets shall be handed over on the basis of a handover protocol without undue delay after the entry into force of this Agreement. The handover protocol shall contain a list of all transferred assets.

4.2 FZÚ also transfers to ELI ERIC the ownership right to all assets that will not be listed in the handover protocol pursuant to the preceding article and that are located on the premises of the ELI-Beamlines Facility at the time this Agreements comes into force, unless the Parties agree or have agreed in each individual case otherwise (for example in the contracts mentioned in Section G) of the Preamble to this Agreement).

4.3 FZÚ hereby transfers to ELI ERIC all warranty rights that are connected with assets described in Article 4.1 and 4.2 of this Agreement. If there is a practical or legal need to conclude an individual written agreement or written consent on the transfer of certain warranty rights that are related to a specific asset, then the FZÚ shall conclude such

agreement or obtain such written consent without undue delay after the notification from ELI ERIC requesting to do so.

4.4 FZÚ also transfers to ELI ERIC all ownership and other rights to software that belongs to the ELI-Beamlines Facility as of December 31, 2022, and ELI ERIC accepts such rights. If the consent of third parties is necessary for the transfer to take place, the Parties shall cooperate in order to acquire such consent. If the consent of third parties is denied for whatever reason, then the Parties shall seek such a solution that would be fair and balanced for both Parties.

5. TRANSFER OF LAND AND BUILDINGS AND CERTAIN WARRANTY RIGHTS

5.1 The transfer of land and buildings from FZÚ to ELI ERIC shall be carried out based on a separate agreement mentioned in Section G) of the Preamble to this Agreement.

5.2 FZÚ hereby transfers to ELI ERIC any and all warranty rights that might arise under Article 20 in connection with Article 22 of the contract for works dated May 16, 2013, which was concluded between FZÚ and Association MVO – ELI II.

5.3 FZÚ hereby transfers to ELI ERIC any and all warranty rights that might arise under Article 20 in connection with Article 22 of the contract for works dated December 22, 2014, which was concluded between FZÚ and Association MVO – ELI 2.

5.4 FZÚ hereby transfers to ELI ERIC any and all warranty rights that might arise under the building contracts that are listed in Annex 4 (*List of building contracts*).

6. ASSIGNEMENT OF CONTRACTS

6.1 FZÚ hereby assigns to ELI ERIC all contracts and agreements listed in Annex 2 (*List of Contracts*) and ELI ERIC accepts this assignment.

6.2 The Parties are aware that in accordance with Section 1895 (1) of the Civil Code, the contractual parties to contracts and agreements listed in Annex 2 (*List of Contracts*) must consent to the assignment. Both Parties shall endeveour to obtain such consents for each invidiual contract.

6.3 If the contractual party does not give its consent to the assignment within the reasonable amount of time, then the particular contract or agreement shall not be assigned and the Parties shall agree in each individual case on how to proceed. In particular, the Parties shall consider whether such a contract or agreement shall be terminated or whether it shall be fulfilled by the contractual party. In the latter case, FZÚ shall conclude a separate contract with ELI ERIC that will ensure that the results of the contract or agreement with the contractual party are transferred to ELI ERIC, if legally possible under the given circumstances of each case.

7. TRANSFER OF EMPLOYEES

7.1 Due to the fact that, under this Agreement, there is a transfer of activities from one employer to another and all other statutory conditions stipulated in Section 338 (2) and (3) of Act no. 262/2006 Coll., Labor Code, are fulfilled, all employees (i.e., rights and duties from the employment relationships) that belong to "Division 9" according to the internal organization of FZÚ (Article 9.6 of the Organizational Rules of FZÚ designated as document "R1") shall be transferred from FZÚ to ELI ERIC and ELI ERIC accepts this transfer. FZÚ shall hand over to ELI ERIC a list of employees that belong to Division 9 (as of December 31, 2022) on January 2, 2023.

7.2 Both FZÚ and ELI ERIC shall inform social security and pension administrative bodies and health care insurance companies that the transfer of employees took place. The Parties shall provide them with all the relevant information so that the smooth transition from one employer to another is ensured. If either Party considers it appropriate, a separate agreement shall be concluded to achieve the above mentioned purpose.

7.3 FZÚ shall hand over to ELI ERIC all personal and salary documentation on all transferred employees.

8. TRANSFER OF INTELLECTUAL PROPERTY RIGHTS

8.1 The transfer of intellectual property rights from FZÚ to ELI ERIC shall be realized based on a separate agreement mentioned in Section G) of the Preamble to this Agreement.

9. TRANSFER OF GRANTS

9.1 The transfer from FZÚ to ELI ERIC of the grants listed in Annex 6 (*List of grants*) shall be carried out based on a separate public-law agreement or other arrangements, if the conclusion of a public-law agreement is not appropriate.

9.2 ELI ERIC shall take over all rights and obligations arising from these commitments.

9.3 FZÚ shall transfer to ELI ERIC all documents related to the grants listed in Annex 6 (*List of grants*).

10. PAYMENT OF OBLIGATIONS

10.1 As of the entry into force of this Agreement, ELI ERIC shall pay all invoices related to the provision of services, goods and construction works that are related to the ELI-Beamlines Facility and that have a date of taxable supply January 1, 2023 onwards. Parties declare that it is their intention that operational costs of ELI-Beamlines Facility that occurred prior January 1, 2023 shall be paid by FZÚ and operational costs that ocur after January 1, 2023 (included), shall be paid by ELI ERIC directly. If in individual case the date of taxable supply

does not correspond to the general principle stated in the preceding sentence, the Parties shall make an arrangement so that the general principle is respected.

10.2 If a direct payment of the invoice to the contractual partner is not possible due to legal or other reasons (e.g., due to the fact that the contract was not yet transferred from FZÚ to ELI ERIC), then FZÚ shall pay for such invoice and ELI ERIC shall subsequently financially compensate FZÚ for such payment (equal amount shall be transferred from ELI ERIC to FZÚ). The Parties shall also seek solutions that will ensure the removal of the legal or other obstacles preventing ELI ERIC from paying such invoice.

11. FINANCIAL RESOURCES

11.1 As ELI ERIC is in the financial position to fully cover all costs of operation of the ELI-Beamlines Facility, there shall not be any transfer of financial resources from FZÚ to ELI ERIC with the exception of:

(a) financial resources from financial grants that are also transferred along with the ELI-Beamlines Facility;

(b) financial resources that were accepted from ELI ERIC under the Operating Agreement;

(c) financial resources that come as a rent from the lease of the canteen premises located in the ELI-Beamlines Facility main building;

(d) all financial resources located at the accounts of "nákladové středisko" 0209 in the software programme iFis.

FZU shall act in good faith so that these financial resources are not depleted by any non-standard operations. These financial resources shall be transferred to ELI ERIC without undue delay after the entry into force of this Agreement.

12. TRANSFER OF PERSONAL DATA

12.1 FZÚ shall transfer to ELI ERIC personal data

a) of all employees that are being transferred from FZÚ to ELI ERIC;

b) of former employees of FZÚ that were paid from grants that are listed in Annex 6 (List of grants) and from financial resources that were allocated to building and operation of the ELI-Beamlines Facility, if there is a legitimate interest for such transfer within the meaning of Article 6(1), letter f) of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation);

c) of users of the ELI-Beamlines Facility; and

d) of the participants in the events organized by FZÚ in relation to ELI-Beamlines Facility.

12.2 Parties consider as legal basis for the transfer of personal data Article 6(1), letter f) of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) with the exception of Article 12.1 letter b) where the legitimate interest will be evaluated on case by case basis..

12.3 FZU further declares that it is not aware of any past breaches of the GDPR pertaining to the personal data being transferred hereunder nor of any unresolved claims by any data subjects.

13. CLOSING OF ACCOUNTS

ELI ERIC shall ensure that ELI-Beamlines Facility employees shall assist FZÚ with the accounting for the calendar year of 2022.

14. ACCESS TO E-MAILS AND SOFTWARE PROGRAMS AFTER THE TRANSFER

14.1 ELI ERIC shall ensure that emails [redacted]@fzu.cz that belong to ELI-Beamlines Facility employees shall remain active and accessible to these employees until 31.12.2023.

14.2 FZÚ shall ensure the ELI-Beamlines Facility employees shall have access to software (applications) that are necessary for fulfilling the obligation of ELI ERIC under Article 13 (such as Verso, EIS, etc.), and possibly other obligations under the general duty of cooperation between Parties.

15. NON-TRANSFERABLE EMPLOYEES

15.1 Parties are aware that due to various reasons (such as grant limitations) employees listed in Annex 7 (*List of non-transferable employees*) (hereinafter referred to as "**Non-transferable employees**") shall not be transferred from FZÚ to ELI ERIC, although these employees are connected to ELI-Beamlines Facility.

15.2 ELI ERIC shall compensate FZÚ the salary provided to the Non-transferable employees by the FZÚ and shall allow Non-transferable employees to occupy offices at ELI-Beamlines Facility, all of this until August 31, 2023. Parties then shall decide on how to proceed.

16. STRATEGIC PARTNERSHIP

In accordance with Article 19 of the Statutes of ELI ERIC, the Parties shall conclude a Strategic Partnership Agreement that shall enable FZÚ in particular to participate in further supporting the operation and infrastructure development, education, and training

provision of user access to the ELI-Beamlines Facility and develop other strategic initiative between the Parties.

17. COURT PROCEEDINGS

17.1 The Parties acknowledge that, at the time of the signature of this Agreement, there are several court proceedings that are directly related to the ELI-Beamlines Facility and its activities. The Parties agree that there will be no exchange of the Parties in these proceedings. FZÚ shall carry on with these proceedings and shall conclude them as it sees fit. The results of such proceedings (whether financially positive or negative) shall affect only FZÚ.

18. FUTURE OBLIGATIONS, DEBTS AND LEGAL CLAIMS

18.1 If, after the entry into force of this Agreement, any unforeseen financial obligation, debt, duty or legal action arises that is related to the ELI-Beamlines Facility that originated before the entry into force of this Agreement, then ELI ERIC shall be responsible for settling such obligation, debt, duty or legal action, unless it would be extremely unfair and unreasonable for ELI ERIC to bear such an obligation, debt, duty or legal action for example in the case where such such obligation, debt, duty or legal action had been caused by willfull unlawfull acts, gross negligence or criminal acts pertaining to the period preceeding the entry into force of this Agreement. If due to legal reasons it is necessary to conclude an agreement to enable ELI ERIC to assume responsibility in any specific case or provide mutual assistance, then the Parties shall do so without undue delay. FZÚ shall bear responsibility for the financial obligation, debt, duty or legal action that arose or shall arise from the actions or ommisions of the organizational unit “THS” according to the internal organization of FZÚ (Article 11 of the Organizational Rules of FZÚ designated as document “R1”). Such financial obligation, debt, duty or legal action shall be settled by FZÚ.

19. FURTHER COOPERATION

19.1 Parties are aware that in order to achieve a smoth transition from one facility operator to another and especially smooth course of operations, a further cooperation of the Parties might become a necessity. Both Parties hereby agree to provide each other with assistance and support in matters related to ELI-Beamlines Facility, especially in the first years after the transition. In particular, the Parties hereby agree to conclude further contracts or agreements that might become necessary in order to preserve the property and value of the ELI-Beamlines Facility and to achieve the purpose and the goal stipulated in this Agreement.

20. OTHER PROVISION

20.1 In the event that ELI ERIC ceases to function for any reason, it undertakes to transfer all assets and liabilities (including all the transferred land and buildings and intellectuall

property rights), employees, activities, contracts and agreements, rights and obligations related to ELI-Beamlines Facility and its operation from ELI ERIC back to FZÚ or its legal successor, in extent, to which it was transferred under this Agreement and to the extent, to which it is objectively possible. In such a case, the contracting parties are obliged to cooperate and provide mutual cooperation to conclude the necessary contracts. This duty of ELI ERIC shall last for 15 years from the conclusion of this Agreement, unless other agreement stipulates otherwise.

21. LEGAL RISKS CONTROL

If, by carrying out the transaction foreseen by this Agreement and related agreements mentioned in the Article 5.1 and 8.1 (i.e. by the transfer of the ELI-Beamlines Facility) is breached any generally applicable legal regulations (laws, government regulations and directives, etc.), the Parties promise each other full cooperation in order to remedy such breach. If any legal or factual steps are necessary, the Parties undertake to act in good faith to and to carry out such legal or factual steps including an amendment to this Agreement (or related agreements mentioned in Section G) of the Preamble to this Agreement).

If the breach of the applicable legal regulations is of a serious nature and the breach cannot be remedied by the action or inaction of the Parties, then either Party has the right to withdraw from this Agreement and related agreements mentioned in Article 5.1 and 8.1 of this Agreement. If the breach of serious nature is not remedied due to lack of cooperation by one of the Parties, then the other Party has the right to withdraw from this Agreement and related agreements mentioned in Article 5.1 and 8.1 of this Agreement. The right to withdraw from this Agreement under preceding sentence shall last for 5 years from the conclusion of this Agreement.

22. USE OF FZÚ BENEFITS BY ELI-BEAMLINES FACILITY STAFF

22.1 Parties are aware of the collective agreement concluded between FZÚ and FZÚ's Trade Unions on June 1, 2022 (hereinafter referred to as the "Collective Agreement") and the related FZÚ's internal regulations that grant to ELI-Beamlines Facility employees certain employment benefits. The Collective Agreement shall expire on June 30, 2023.

22.2 As a result of the transfer of the ELI-Beamlines Facility employees (along with their employment rights and duties) from FZÚ to ELI ERIC, these employment benefits must be maintained for at least the duration of the Collective Agreement. FZÚ shall continue to grant to ELI-Beamlines Facility employees the employement benefits under the Collective Agreement, which cannot be objectively provided (due to their nature) by ELI ERIC (e.g. rental of cottages in Krkonoše mountains) until the Collective Agreement expires.

23. FINAL PROVISIONS

23.1 This Agreement was concluded pursuant to Section 1746(2) of the Civil Code. Where choice of law is admissible, it shall be governed by the laws of the Czech Republic.

23.2 Neither Party is entitled to transfer its claims against the other Party that shall arise on the basis or in connection with this Agreement on third parties.

23.3 Neither Party is entitled to transfer its rights and duties under this Agreement or its part onto third parties.

23.4 All modifications and supplements of this Agreement must be in writing.

23.5 All its annexes are an integral part of this contract.

23.6 If any of the provisions of this Agreement are invalid or ineffective, the Parties are bound to change this Agreement is such a way that the invalid or ineffective provision is replaced by a new provision that is valid and effective and to the maximum possible extent corresponds to the intent of the original invalid or ineffective provision.

23.7 The Parties are aware that FZÚ is obliged to publish this Agreement in the Register of Contracts within the meaning of the Act no. 340/2015 Coll., on the Register of Contracts.

23.8 This Agreement shall be valid on the day, on which it was signed by both Parties. This Agreement shall become effective on later of the following days: (i) date of publishing this Agreement in the Register of Contracts, or (ii) January 1, 2023.

IN WITNESS WHEREOF attach Parties their signatures:

ELI ERIC		FZÚ	
Signature:	_____	Signature:	_____
Name:	Allen Weeks	Name:	RNDr. Michael Prouza, Ph.D.
Position:	Director General	Position:	Director
Date:	_____		_____

Annex 1

1. DESCRIPTION OF ELI-BEAMLINES FACILITY AND ITS ACTIVITIES

The ELI-Beamlines facility is located at the address: Za Radnicí 835, Dolní Břežany, post code 252 41, near Prague (Czech Republic). Even in its name, it underlines its capability to support multiple, different experiments for a range of users, offering the availability of various laser lines. It is designed to offer a high-energy and high repetition-rate capabilities. It is a single-site, greenfield facility occupying more than 30,000 hectares.

Activities at the ELI-Beamlines facility are of both scientific and non-scientific nature (mostly administrative activities that enable and support scientific research). The aim of the Parties is to transfer both scientific and non-scientific activities that are realized at the ELI-Beamlines facility or are carried out by employees that belong to "Section 9" according to the internal organizational division of FZÚ.

1.1 Facility and experimental capabilities

The ELI-Beamlines facility will be the most multifunctional of all existing and projected laser facilities. It is designed not only to serve researchers who specialize in laser science, but it will also accommodate researchers from other fields such as material sciences and engineering, medicine, biology, chemistry, and astrophysics. With this variety in its research activities, it is expected to deliver significant benefits to society in the medium and long term.

PRIMARY LASER SOURCES		Peak power	Energy in pulse	Pulse duration	Repetition rate
ELI Beamlines	L1	>5 TW	100 mJ	< 20 fs	1 kHz
	L2 OPCPA, Dual color	100 TW	1J OPCPA /1mj MIR	≤ 20 fs	20 Hz
	L3	≥ PW	≥ 30 J	≤ 30 fs	10 Hz
	L4f	10 PW	≥ 1.5 kJ	≤ 150 fs	1 shot per min
	L4n		≥ 1.5 kJ	ns	1 shot per min
	Astrella		6 & 10mJ	20 fs	1 kHz

	Bio-laser		6 mJ CEP stabilization	20 fs	1 kHz

Table 1 – ELI Beamlines Performance Parameters for Laser Sources

The specific goal of ELI Beamlines, as endorsed in the ELI 'White Book', is to develop a 'High-Energy Beam Facility, responsible for development and use of ultra-short pulses of high-energy particles and radiation stemming from relativistic and ultra-relativistic interactions', as well as to address one of the 'Grand Challenges' listed in it, specifically in the generation of 'Ultra-short pulses of energetic particles (>10 GeV) and radiation (up to few MeV) beams produced from compact laser plasma accelerators'.

Furthermore, there is a very strong emphasis on possible applications in different fields of societal relevance like for instance medicine or biology. ELI-Beamlines, together with the connected HiLASE Centre dedicated to the laser technology development and transfer, which already serves as an attractor for companies and spin-offs in different fields installed in the so-called STAR region (Science and Technology Advanced Region) which is surrounding the ELI-Beamlines facility, creates the favourable environment for intensive cooperation between research and industry.

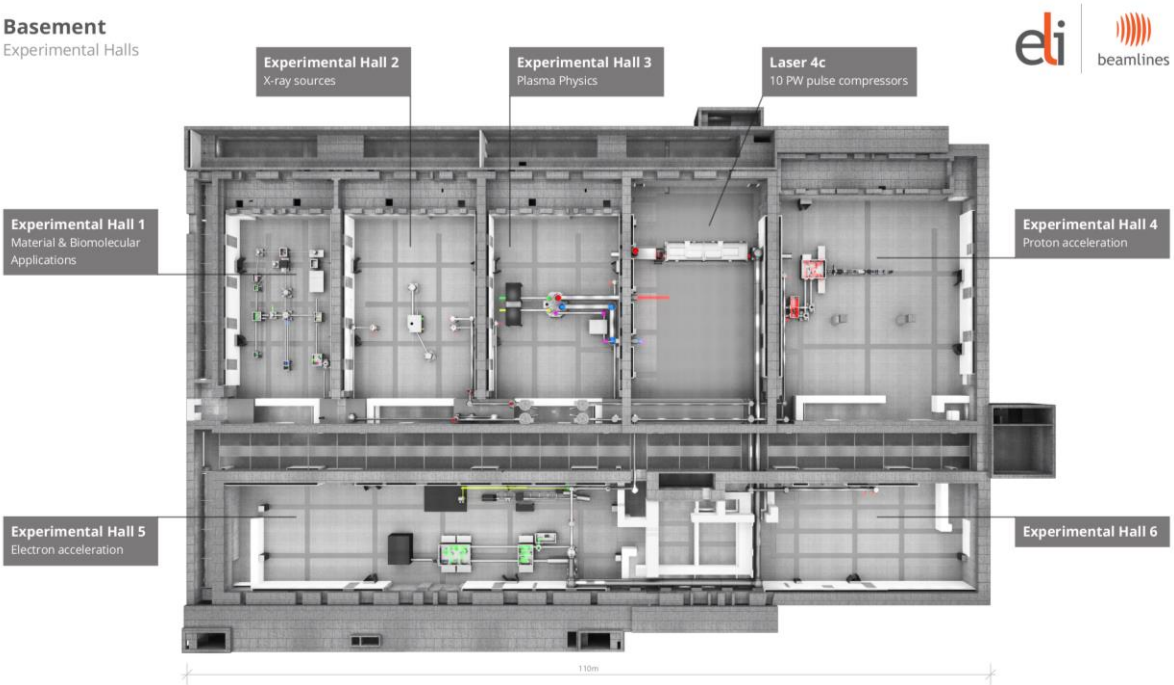

Figure 1 – Layout of ELI Beamlines Facility

The ultrashort and ultra-intense pulses of light and the particles generated ELI-Beamlines from interaction with solid state and gas target materials will allow a broad spectrum of projects in fundamental and applied research in chemistry, biology, medical technologies,

development of new materials, and other areas. The research activities within the ELI-Beamlines project are structured into six experimental halls where stations are placed to address the Experimental hall E1 will house laser-driven secondary sources and experimental end-stations for applications in molecular, bio-medical, and materials sciences. Experiments will exploit synchronized laser photon beams in the VUV and hard X-ray range. Instruments include:

Secondary Sources – ELI Beamlines	Source
E1: X-Ray Sources	HHG
E1: X-Ray Sources	PXS
E2: X-Ray Sources	Betatron
E2: X-Ray Sources	Compton
E4: Ion Acceleration	ELIMAIA
E5: Laser Undulator Illuminating Source	LUIS
E5: Electron Accelaration	ELBA

Table 2 – ELI Beamlines Secondary Sources

Experimental hall – ELI Beamlines	Station
E1: Material and Biomolecular Applications	MAC
E1: Material and Biomolecular Applications	Trex
E1: Material and Biomolecular Applications	SRS
E1: Material and Biomolecular Applications	ELIps
E2: X-Ray Source – Betatron source	Gammatron station

E2: X-Ray Source – Compton source	Compton stations
E3: Betatron Source	P3
E3: Plasma Physics Platform	P3
E4: Ion Acceleration	ELIMED
E5: Laser Undulator Illuminating Source	LUIS Station
E5: Electron Accelaration	ELBA Station

Table 3 – ELI Beamlines Experimental Stations

- MAC: a Multi-purpose chamber for Atomic, molecular, and optical sciences and Coherent Diffractive Imaging.
- ELIps: VUV ellipsometer for sub-ps experiments; an end-station for VUV and soft X-ray materials.
- Hard X-ray end-station: A modular station for Time Resolved Experiments such as scattering, diffraction, spectroscopy and imaging with X-rays.
- Optical probes and pump beams: An advanced station for optical spectroscopy, including stimulated Raman scattering; the source for a wide array of synchronized pump beams from UV to IR and THz.

The experimental hall E2 is dedicated to ultrafast and bright, hard X-ray beams. A PW-class laser will be available at a 10 Hz repetition rate. A range of parameters may be adjusted including laser intensity, laser spot size and duration, and electron density in the gas. Electrons are accelerated to relativistic energies and wiggled by the plasma itself (Betatron source) or by a second laser pulse (Compton source). Intense femtosecond X-ray or gamma-ray beams are emitted by a micron-size source. Users may request narrow spectrum (10% energy spread) or broadband radiation in a spectral range from keV to a few MeVs.

The plasma physics platform located in the experimental hall E3 is a multi-functional experimental infrastructure designed to perform laser-plasma and laser-matter interaction research predominantly on the following topics:

- High energy density physics (HEDP)
- Warm dense matter (WDM)
- Plasma optics (PO)

- Laboratory astrophysics (LA)
- Ultra-high intensity interaction (UHI).

The E4 experimental area allows users to test various samples with laser accelerated ion sources because of its ion beam transport and dosimetry section, as well as to investigate innovative schemes for laser-driven ion acceleration that can be accommodated in the flexible interaction chamber.

The E5 experimental hall contains the LUX beam line and is dedicated to users interested in the irradiation of various samples through the most advanced techniques. It also houses the ELBA platform, a flexible experimental area dedicated to users who want to test innovative concepts and use the most advanced technologies for accelerating electrons with lasers at multi-GeV levels.

The confirmation and acceptance of each experimental station will be monitored and a formal 'Operational Acceptance Review', consisting of independent experts, experts from ELI Beamlines, and experts from the other ELI Facilities will confirm readiness for users and make a formal recommendation to the ISTAC and to the ELI ERIC GA.

1.2 Workshops and laboratories

The ELI Beamlines Facility supports operations with the following facilities, laboratories and workshops:

- High power computing clusters – SUNRISE (ELI II Building) and ECLIPSE - provide computational resources for scientists and engineers who work at the ELI facility as well as for ELI's users who may benefit from computer simulations.
- ELIBIO Laboratory - advanced biological laboratory, including dedicated laser laboratory, optical nad electron microscope, BSL2 facilitity
- Biochemical and chemical Laboratory
- RADLAB - is a laboratory dedicated for radiation protection purposes.
- Integration Control Systems Laboratory - Primary tasks of the lab are acceptance testing and commissioining on experimental setups control hardware before they final cleaning and integration to beamlines endstations.
- Optical Laboratories - labs for preparation of optical components and setups.
- ISO5 laboratory - used to clean and verify optics and optomechanics
- Target Laboratory - the main goals of the TargetLAB are fabrication, characterization, handling and assembly of various types of targets being

investigated during experimental research campaigns within ELI Research Programs.

- Metrology Laboratory
- Opto-mechnical Workshop - the workshop serves for assembly, adjustment and testing of optomechanical devices prototypes. It is used for metrology of optomechanical devices, acceptance tests, cleaning, repairs and maintenance.
- Electronical engineering workshop – serves to design manufacturing, testing of lectrical and electronic devices.
- Vacuum workshop – serves for testing various vacuum related devices, such as gauges, pumps, valves, and components that are used in vacuum environment.
- Mechanical workshop (ELI II Building) provides capability for ih-house manafacturing of complex components such as beam transport mounts and experimental set-ups.

Annex 2

List of contracts

Item	Contract number	Title	Contractual partner	Signature date
1	2009	Smlouva o sdružení Konsorcium ELI-CZ	More contractual partners	26.01.2009
2	89/09	SoSBK o zřízení věcného břemene	Středočeský kraj	22.10.2009
3	2010	Smlouva o připojení k distribuční soustavě	Pražská plynárenská distribuce, a.s., člen koncernu Pražská plynárenská, a.s.	09.02.2010
4	31/2011	Krátkodobé připojení odběrného zařízení do distribuční soustavy	ČEZ Distribuce , a.s.	15.05.2011
5	99/2012	Zřízení místa zpětného odběru baterií	ECOBAT s.r.o.	01.08.2012
6	166/2012	SoSBK o zřízení věcného břemene	Obec Dolní Břežany, BALPACK s.r.o.	11.12.2012
7	167/2012	SoSBK o zřízení věcného břemene	Obec Dolní Břežany, VEREBEX spol. s.r.o.	11.12.2012
8	168/2012	SoSBK o zřízení věcného břemene	Obec Dolní Břežany	11.12.2012
9	169/2012	SoSBK o zřízení věcného břemene	Obec Dolní Břežany	11.12.2012
10	2012	SoSBK o zřízení věcného břemene (22C12/81)	Pozemkový fond České republiky	05.12.2012
11	2013	Právo stavby na cizím pozemku	Obec Dolní Břežany	06.12.2013
12	-2013		Pražská plynárenská distribuce, a.s., člen koncernu Pražská plynárenská, a.s.	22.11.2013
13	69/2013	Umístění veřejné telekomunikační sítě	Telefónica Czech republic, a.s.	04.07.2013
14	158/2013	Pronájem pozemků	BALPACK s.r.o.	09.12.2013
15	160/2013	Pronájem pozemků	AUTOPARK s.r.o.	09.12.2013
16	M-2014_13	Mlčenlivost	Atlas Technologies	19.12.2014
17	S14/094E	Smlouva o provozování, provádění údržby a oprav energetického zařízení	ČEZ Energetické služby s.r.o.	31.07.2014

18	S14/127E	L4 - Round 3 (Technology development and delivery of a kilojoule laser for 10 PW beamline operating at augmented shot rate)	NATIONAL ENERGETICS, Ekspla	11.09.2014
19	S14/176E	SOW-2014-110 Implementace TC project management	Siemens Industry Software, s.r.o.	20.10.2014
20	M-2014/12	Smlouva o mlčenlivosti	Azimut CZ s.r.o.	11.12.2014
21	S14/205E	Smlouva o provozování plynárenského zařízení	Pražská plynárenská Distribuce, a.s., člen koncernu Pražská plynárenská, a.s.	08.12.2014
22	S15/004E	Smlouva o nájmu části nemovitosti	T-mobile Czech Rebublic a.s.	20.01.2015
23	S15/056E	Odběr zemního plynu	Pražská plynárenská Distribuce, a.s., člen koncernu Pražská plynárenská, a.s.	17.04.2015
24	S15/064E	Smlouva o spolupráci při zajištění provozu	CESNET, zájmové sdružení právnických osob	08.04.2015
25	S15/109E	Smlouva o provozování plynárenského zařízení	Pražská plynárenská Distribuce, a.s., člen koncernu Pražská plynárenská, a.s.	23.06.2015
26	S15/158E	Smlouva o připojení odběrného el. zařízení k distribuční soustavě 15_VN_1007045559	ČEZ Distribuce, a.s.	24.08.2015
27	S15/159E	Smlouva o připojení odběrného el. zařízení k distribuční soustavě 15_VN_1007045563	ČEZ Distribuce, a.s.	24.08.2015
28	S15/160E	Smlouva o připojení odběrného el. zařízení k distribuční soustavě 15_VN_1006997996	ČEZ Distribuce, a.s.	24.08.2015
29	S15/161E	Smlouva o připojení odběrného el. zařízení k distribuční soustavě 15_VN_1006998715	ČEZ Distribuce, a.s.	24.08.2015
30	S15/177E	Smlouva o sdružených službách dodávky a odběru zemního plynu	Pražská plynárenská, a.s.	14.07.2015
31	S15/186E	Telefonní přípojka	O2 Czech Republic, a.s.	29.07.2015
32	S15/208E	Smlouva o dodávce vody a odvádění odpadních vod	SčV, a.s.	23.10.2015
33	M-2015/09	Dohoda o zachování důvěrnosti ve vztahu k předaným informacím a dokladům	ANAMET s.r.o.	27.10.2015

34	S15/235E	Smlouva o zřízení a provozu sběrného místa kolektivního systému ekolamp	EKOLAMP s.r.o.	20.11.2015
35	S15/252E	Servisní smlouva na samočinné odvětrací zařízení pro přirozený odvod kouře a tepla	PRUNIWERK a.s.	02.12.2015
36	S15/264F	Smlouva o nájmu nebytových prostor, sekce A - kanceláře	Ústav teorie informace a automatizace AV ČR, v.v.i.	18.12.2015
37	S15/265F	Smlouva o nájmu nebytových prostor, sekce C - laboratoř	Ústav teorie informace a automatizace AV ČR, v.v.i.	18.12.2015
38	S15/268H	Smlouva o dodávce vody a odvádění odpadních vod č. 83007130/2	SčV, a.s.	30.12.2015
39	S15/271E	Smlouva o dodávce vody a odvádění odpadních vod (č. 83008238/2)	SčV, a.s.	30.12.2015
40	S15/272E	Smlouva o dodávce vody a odvádění odpadních vod (č. 83008935/2)	SčV, a.s.	30.12.2015
41	S16/046E	Internet Business / IOL Ethernet	O2 Czech Republic a.s.	07.03.2016
42	S16/054E	Smlouva o poskytnutí užívacích práv ke službě systému ASPI	Wolters Kluwer ČR, a.s.	08.03.2016
43	S16/058E	Servisní smlouva	Jungheinrich (ČR) s.r.o.	21.03.2016
44	S16/061E	Příkazní smlouva - zpracování a předávání statistického výkazu pro Intrastat	Pavel Štorek, Jan Mottl	08.02.2016
45	S16/111E	Pojištění zásilek	DHL Express (Czech republic) s.r.o.	27.06.2016
46	S16/144E	Pojištění přepravy zásilek - poj. sml. 2030007066	UNIQA pojišťovna, a.s.	15.08.2016
47	S16/150E	Licenční smlouva	Photonic Technologies s.r.o.	22.08.2016
48	M-2016/9	A MUTUAL NONDISCLOSURE AGREEMENT FOR EXCHANGE OF INFORMATION	LightTrans International UG	13.07.2016
49	S16/222E	Smlouva o partnetství	Biotechnologický ústav AV ČR v.v.i.	07.12.2016
50	M-2017/01	Non-Disclosure Agreement	PINK GmbH Vakuumtechnik	17.01.2017
51	M-2017/6	Smlouva o mlčenlivosti	ÚJV Řež, a.s.	01.03.2017

52	M-2017/12	Non-Disclosure Agreement	Dr. Eckehard Onkels	27.03.2017
53	S17/051E	Design, prototyping and prototype testing of sample delivery and single particle imaging devices	Uppsala University	17.03.2017
54	M-2017/14	Non-Disclosure Agreement	Mellanox Technologies LTD	29.03.2017
55	S17/066E	Nájemní smlouva Premium P2017027	Unicont Group s.r.o.	27.04.2017
56	S17/067E	Nájemní smlouva Premium P2017028	Unicont Group s.r.o.	27.04.2017
57	S17/072E	Smlouva o poskytnutí užívacích práv ke službě systému ASPI	Wolters Kluwer ČR, a.s.	02.05.2017
58	S17/075E	Smlouva zasilatelská	PPL CZ s.r.o.	10.05.2017
59	M-2017/18	Dohoda o zachování důvěrnosti ve vztahu k předaným informacím a dokladům	AS Chemoprag, a.s.	12.06.2017
60	S17/174E	TC-SW služby, rozvoj a licence - Dodávka nových licencí SW_část B	Siemens Industry Software, s.r.o.	22.09.2017
61	S17/175E	TC-SW služby, rozvoj a licence - Dodávka Maintenance/SW podpory_část C	Siemens Industry Software, s.r.o.	22.09.2017
62	M-2017/31	Non-Disclosure Agreement	T-Mobile Czech Rebublic a.s.	27.09.2017
63	M-2017/32	Non-Disclosure Agreement	Bohumil Vítovec	09.10.2017
64	M-2017/34	Mutual nondisclosure agreement	Zygo corporation, AMETEK Germany	18.10.2017
65	S17/243E	Personal safety interlock system	Rockwell Automation s.r.o.	18.12.2017
66	M-2018/05	Smlouva o mlčenlivosti	GrapeNet s.r.o.	15.02.2018
67	M-2018/08	Multilateral Confidential Disclosure Agreement (NDA)	Particle Measuring Systems, Inc.	10.05.2018
68	S18/087E	Smlouva o dílo a smlouva licenční č. OP-18-030	Indust, s.r.o.	14.05.2018
69	M-2018/16	Non-Disclosure Agreement	MIT, spol. s r.o.	10.08.2018
70	M-2018/17	Non-Disclosure Agreement	NTG Neue Technologien GmbH	03.09.2018
71	S18/185E	Právní služby pro soudní uplatnění škody vzniklé v důsledku vad podlah	AK Hartmann, Jelínek, Fráňa a partneři, s.r.o.	17.09.2018
72	S18/191E	Dohoda o uskladnění	SH ČMS - Sbor dobrovolných hasičů Lhota	01.10.2018

73	S18/275E	Poskytování služeb maintenance k SW produktům Teamcenter a NX	Siemens Industry Software, s.r.o.	19.12.2018
74	S19/017E	Filtrační technika-reissue	KS Klima - Service, a.s.	31.01.2019
75	M-2019/03	Non-Disclosure Agreement	Autocont a.s.	21.02.2019
76	M-2019/04	Non-Disclosure Agreement	Atos IT Solutions and Services s.r.o.	21.02.2019
77	M-2019/05	Non-Disclosure Agreement	DCI Czech a.s.	21.02.2019
78	M-2019/06	Non-Disclosure Agreement	M Computers s.r.o.	21.02.2019
79	S19/029E	Dohoda o spoluvlastnictví	INFN	22.02.2019
80	S19/035E	Úklid čistých prostor v areálu ELI Beamlines	ZENOVA services s.r.o.	05.03.2019
81	S19/042E	Licence agreement -XUV profiler final jeden partner (CITT)	Dr. Hoerlein & Partner GbR	04.03.2019
82	S19/067E	Smlouva o koupi časosběrných sekvencí a fotografií	Pavel Kučera	18.04.2019
83	S19/083E	Smlouvana na dodávky kapalných technických plynů	Linde Gas a.s.	07.05.2019
84	S19/084E	Smlouva o nájmu technických zařízení	Linde Gas a.s.	07.05.2019
85	S19/086E	Nájemní smlouva - prostory gastroprovozu (kantýna)	MIJA gastro s.r.o.	13.05.2019
86	S19/122E	Partnerská smlouva	Politechnika Wroclawska	12.06.2019
87		Multi-beneficiary grant agreement for the UHD Pulse project (Horizon)	EURAMET e.V.	18.06.2019
88	S19/129E	Accesion of ELI Beamlines to the TANGO Controls Collaboration	ESRF - The European Synchrotron Radiation Facility	13.06.2019
89	S19/134E	Zvýšení výpočetní kapacity HPC	Atos IT Solutions and Services s.r.o.	08.07.2019
90	M-2019/15	Non-Disclosure Agreement	SmarAct GmbH	28.06.2019
91	S19/142E	Smlouva o výpůjčce - artefakty	Archeologický ústav AV ČR, Praha, v.v.i.	25.04.2019
92	S19/145E	Poskytnutí expertní podpory pro SW Teamcenter 2019 - 2020	Siemens Industry Software, s.r.o.	29.07.2019
93		Metrology for advanced radiotherapy using particle beams with ultra-high pulse dose rates	Horizon 2020 EMPIR project Consortium Agreement	09.08.2019

94	S19/159E	Rámcová smlouva provádění stavebních prací	SAUTER Automation, spol. s r.o.	28.08.2019
95	S19/163E	Environmental Scanning Electron Microscope - servisní smlouva	FEI Europe B.V.	30.08.2019
96	S19/180E	Clean rooms Machinery portable Particle Counters	ANAMET s.r.o.	19.09.2019
97	S19/181E	Monitorovací systém ionizujícího záření a plynů	NUVIA a.s.	25.09.2019
98	S19/189E, + D1	Smlouva o údržbě zeleně v areálu ELI Beamlines + Dodatek č. 1	Jan Mrkvica	27.09.2019
99	S19/192E	Memorandum - vypořádání vzájemných nároků vyplývajících z odstraňování záručních vad díla	Sdružení MVO - ELI II.	03.10.2019
100	S19/244E	Rámcová smlouva o obchodní spolupráci při zajištění služeb cestovního ruchu	weco-Travel (CZ), s.r.o.	18.11.2019
101	S19/262E	Smlouva o podpoře a údržbě	Siemens Industry Software	21.11.2019
102	S20/022E	Smlouva o provozu a údržbě vodohospodářského infrastrukturního majetku	Technické služby Dolnobřežanska, s.r.o.	04.02.2020
103	S20/023E	Smlouva o dodávce vody a odvádění odpadních vod, Průmyslová 836	Technické služby Dolnobřežanska, s.r.o.	04.02.2020
104	S20/024E	Smlouva o dodávce vody a odvádění odpadních vod, Průmyslová 828	Technické služby Dolnobřežanska, s.r.o.	04.02.2020
105	S20/025E	Smlouva o dodávce vody a odvádění odpadních vod, Za Radnicí 835	Technické služby Dolnobřežanska, s.r.o.	04.02.2020
106	S20/038E	Rámcová a nájemní smlouva na nájem tlakových lahví, svazků a palet	Messer Technogas s.r.o.	02.03.2020
107	S20/054E	Smlouva na dodávku plynů v lahvích	Linde Gas a.s.	30.03.2020
108	S20/089E	Smlouva o poskytování servisních služeb - Rotační šroubový vzduchový kompresor se sušičkou vzduchu	2e plus s.r.o.	19.05.2020
109	M-2020/6	Mutual confidentiality agreement	Marvel Fusion GmbH	08.06.2020
110	S20/110E	Smlouva o testování na SARS	Univerzita Karlova	19.06.2020

111	M-2020/9	Mutual non-disclosure agreement	Industrial Technology Research Institute (ITRI)	25.05.2020
112	S20/121E	Rámcová kupní smlouva	Ptáček - velkoobchod, a.s.	29.05.2020
113	S20/126E	Smlouva o dílo - Upgrade SW Teamcenter a NX	Siemens Industry Software, s.r.o.	25.06.2020
114	S20/129E	Objednávka servisních služeb	Jungheinrich (ČR) s.r.o.	24.07.2020
115	S20/133E	UHV grade linear actuators for experimental hall E2	MIT spol. s r.o.	07.08.2020
116	S20/142E	Služby pro zajištění odpadového hospodářství	FCC Česká republika, s.r.o.	20.08.2020
117	S20/147E	OAP mirrors substrates for L4f beam focusing	Safran Reosc	09.01.2020
118	S20/148E	Prádelní služby - opakované vyhlášení	ELIS Textil Servis s.r.o.	01.09.2020
119	S20/159E	Pratelné oděvy do čistých prostor	ELIS Textil Servis s.r.o.	14.09.2020
120	S20/172E	Pronájem multifunkčních tiskových strojů	elites MDS s.r.o.	07.10.2020
121	S20/174E	MOB Vacuum Chamber For Beam Input into P3 Experimental Chamber	STREICHER spol. s r.o. Plzeň	14.10.2020
122	S20/176E	Školení NX CAD	Siemens Industry Software, s.r.o.	05.10.2020
123	S20/177E	Geodetické služby III.	GEFOS a.s.	15.10.2020
124	S20/178E	Leak warning and detection system components	Ray service, a.s.	16.10.2020
125	S20/180E	Elektoinstalační práce	c.e.c. - czech energy centre, s.r.o.	27.10.2020
126	G20/051EJ	Contract on the Provision of Financial Resources from the International Visegrad Fund´s	International Visegrad Fund	16.10.2020
127	S20/199E	High Power L4n Aspherical Lenses	Optical Surfaces Ltd	23.11.2020
128	S20/206E	Pump Diode Module for Joule multipass amplifier	Lastronic GmbH	30.11.2020
129	S20/211E	Components for Compressed Gases and Cooling Water Distribution	Ventile & Fittings Praha spol. s r.o.	03.12.2020
130	S20/212E	RF cabinets with increased shielding against intense electromagnetic interference fields	Rittal Czech s.r.o.	07.12.2020
131	S20/215E	Electrical installation material	Sonepar Česká republika spol. s r.o.	09.12.2020

132	S20/219E	High Power Laser Diodes	Lastronic Jena GmbH	17.12.2020
133	S20/223E	Smlouva o podpoře a údržbě	Siemens Industry Software, s.r.o.	03.12.2020
134	S21/002E	Smlouva o poskytování služeb systémové a technické podpoře aplikačního programového vybavení	Oksystem a.s.	07.01.2021
135	S21/011E	Tvorba videa	VideoAnimace s.r.o.	02.02.2021
136	S21/013E	Příkazní smlouva	SPED ART s.r.o.	02.02.2021
137	S21/014E	Příkazní smlouva - zpracování a předávání statistického výkazu pro Intrastat	SPED ART s.r.o.	02.02.2021
138	S21/038E	SPONSORSHIP AGREEMENT	Marvel Fusion GmbH	10.03.2021
139	M-2021/5	Smlouva o mlčenlivosti	ITDS Consulting	04.03.2021
140	S21/043E	Smlouva o dílo - Energetický projekt s možností financování prostřednictvím dotace	PKV Build s.r.o.	23.03.2021
141	S21/044E	Smlouva o dílo - Detailní návrh fotovoltaické elektrárny	PKV Build s.r.o.	23.03.2021
142	S21/049E	Cooling System based on Brayton cycle	Ateko a.s.	31.03.2021
143	S21/058E	Rozvoj řešení TC	Siemens Industry Software, s.r.o.	07.04.2021
144	S21/076E	Smlouva o provedení revizí elektrických spotřebičů, strojů a strojních zařízení	Rilancio s.r.o.	10.05.2021
145	S21/082E	Smlouva o poskytnutí služby - Zdraví ve firmě	uLékaře.cz, s.r.o.	05.05.2021
146	S21/087E	Vacuum valves	Kurt J. Lesker Company Ltd	24.05.2021
147	S21/100E	Ochranné pracovní pomůcky OOPP	VWR International s.r.o.	27.05.2021
148	S21/114E	Rámcová smlouva o spolupráci	Preciosa, a.s.	28.06.2021
149	M-2021/13	Zachování důvěrného charakteru a nezpřístupnění informací	Preciosa, a.s.	28.06.2021
150	S21/115E	Contract for services - spouštění a provozování systémů pro zhotovování aerosolových vzorků a vývoj souvisejícího software	Uppsala University	30.06.2021
151	S21/121E	Smlouva o provádění laboratotních testů	Diana Lab, s.r.o.	07.07.2021

152	S21/124E	Smlouva o poskytování servisních služeb - Rotační šroubový vzduchový kompresor	2e plus s.r.o.	12.07.2021
153	S21/131E	L4f Transport Mirror Substrates	OptiXs, s.r.o.	22.07.2021
154	S21/146E	Positioning System for LUIS EUV Beam Transport	SmarAct GmbH	02.09.2021
155	S21/150E	Smlouva o dílo - LabS2_technologie TZB	EP Rožnov, a.s.	07.09.2021
156	S21/157E	Monitorovací systém tlakové kaskády čistých prostor	Data Elektronik, s.r.o.	20.09.2021
157	S21/161E	Motion Drivers	Raveo s.r.o.	29.09.2021
158	S21/169E	Připojení výrobny k distribuční soustavě	ČEZ Distribuce a.s.	11.10.2021
159	S21/170E	Zajištění výuky cizích jazyků	Language Forum s.r.o.	01.10.2021
160	S21/178E	ICT Switches	Sitel spol. s r.o.	26.10.2021
161	S21/185E	Záložní baterie	BATPRO napájecí systémy s.r.o.	09.11.2021
162	024-U-5155/21	Dohoda o ubytování	Středisko společných činností AV ČR, v.v.i.	04.11.2021
163	S21/198E	NONEXCLUSIVE PATENT LICENSE AGREEMENT	Lawrence Livermore National Security, LLC, a Delaware limited liability company ("LLNS")	01.12.2021
164	S21/199E	STRATEGIC PARTNERSHIP PROGRAM AGREEMENT WITH NON-FEDERAL SPONSORS	Lawrence Livermore National Security, LLC, a Delaware limited liability company ("LLNS")	29.11.2021
165	S21/206E	Reissue - Dodávka výpočetní techniky pro rok 2021	C SYSTEM a.s.	15.12.2021
166	S21/215E	L2 and L4PW Compressor and Beam Injector Integrated Vacuum, Optomechanical and Electronic Control Systems	Delong Instruments a.s.	23.12.2021
167	S22/006E	L4 10PW Laser Beam Distribution Vacuum Infrastructure	STREICHER spol. s r.o. Plzeň	17.01.2022
168	S22/018E	Bezolejové vývěvy_reissue	Atlas Copco Services s.r.o.	04.02.2022
169	S22/019E	Validace čistých prostor v areálu ELI	BLOCK a.s.	04.02.2022
170	S22/031E	Uncoated Mirror Substrates TM-45 for 30 J,30 fs @ 810 nm petawatt laser L3 Beam Transport	OptiXs s.r.o.	23.02.2022
171	S22/043E	Clean rooms Machinery portable Particle Counters	ANAMET s.r.o.	28.03.2022

172	S22/049E	Due Diligence areálu / Komplexní kontrola stavu objektu	norman rourke pryme s.r.o.	05.04.2022
173	S22/050E	Autodesk licence	ARKANCE SYSTEMS CZ s.r.o.	05.04.2022
174	S22/057E	Compact high-accuracy and high-highrigidity piezo positioners with position encoders	SmarAct GmbH	22.04.2022
175	S22/062E	Dodávka substrátů laserovýh mřížek / L4 PW and L2 grating substrates	OptiXs, s.r.o.	29.04.2022
176	S22/067E	Smlouva o výpůjčce	Sitel spol. s r.o.	11.05.2022
177	S22/086E	Smlouva o připojení výrobny k distribuční soustavě	ČEZ Distribuce a.s.	31.05.2022
178	S22/098E	Vacuum chamber of the chirped mirror compressor	Streicher spol. s r.o. Plzeň	27.06.2022
179	S22/099E	Partnership contract	D-TACQ Solutions	27.06.2022
180	S22/105E	Vacuum Hydroformed Bellows Modules for the L2 Beam Distribution	VAKUUM PRAHA, spol. s r.o.	12.07.2022
181	S22/112E	Matching section for LUIS	Danfysik A/S	22.07.2022
182	S22/113E	Uncoated Axis parabolic mirror	ASA Astrosysteme	22.07.2022
183	S22/117E	Real-time Digital Oscilloscopes	Blue Panther s.r.o.	03.08.2022
184	S22/138E	Dodávka L4 Gratings	Lawrence Livermore National Security, LLC	15.09.2022
185	S22/140E	L2 BT Vacuum Infrastructure	Streicher, spol. s r.o. Plzeň	20.09.2022
186	S22/121E	Přípravné a stavební činnosti v areálu ELI Beamlines	Artefakt service s.r.o.	25.07.2022
187	S22/128E	Smlouva o poskytnutí služeb, rozvoj SW produktu TC a související služby	Siemens Industry Software, s.r.o.	31.08.2022
188	TP22_013b	CMC Optical Table Assy		
189	TP22_041	Coating the large BT L3 mirrors for ECU chamber in E5 - batch II.		
190	TP22_038	Coating the large BT L3 mirrors for ECU chamber in E5 - batch I.		
191	TP22_025	Spin coater		
192	TP22_013a	Design and manufacture of FSYNC CMC Optomechanical table and CMC modules		

193	TP20_112	THz Camera		
194	TP22_036b	Optomechanics II		
195	TP22_018	Ion sputterer		
196	TP22_032	High performance optics for chirped mirror compressor		
197	TP22_035	SW licences and FortiNet remote assistance renewal 2023		
198	TP22_036d	Optics & Optomechanics miscelaneous items		
199	SP22_004	Spare set of Yb:YAG crystals for the L2 pump laser		
200	TP22_040	Digital KVM 1U + Console + clients (3 pcs)		
201	TP22_014	Software development / Linux automation		
202	TP22_037	Intercom extension to E2 and E5		
203	TP22_023	x-Ray optics for PXS source		
204	TP22_005	Hollow core fiber compressor		
205	TP22_031	Central heating and cooling services 2021 - 2025		
206	TP22_034	BT L2 Turbomolecular pumps		
207	TP22_016	820 nm deformable mirror		
208	TP20_096	HVAC services 2022 - 2026		
209	TP20_097	Building Monitoring System Services 2021 - 2023		
210	TP22_015	Office furniture		
211	TP21_061	Emergency services 2022 - 2025		
212	TP21_023	Fire systems services 2022 - 2026		
213	TP22_039	EIS ERP system modification (ELI detached node creation)		
214	TP22_033	Off-axis parabolic mirror f/# = 1.0		
215	TP20_129	Backup pumps (spares) for cooling of scientific technologies		
216	TP21_024	Data networks and cabling - services 2022 - 2026		
217	TP22_020a	Chambers CH12 and CH13 for BT in E1		

218	TP22_030	OAP for counter-propagation		
219	TP22_020b	New MAC focusing chamber		
220	TP22_026	Radiation Shielding		
221	TP22_029	Multilane X-ray optics for Gammatron Beamline		
222	TP22_042	Construction works and installation of comfort/alarm technologies		
223	TP22_021	Vacuum chamber and infrastructure		
224	TP22_036c	Optics		
225	TP22_043	Uncoated mirrors for L2BT		
226	SP22_002	New PA2 DFM membrane		
227	SP22_003	Front End Pulse Shaper L4.1		
228	TP22_027	Framework contract for construction activities		
229	TP22_036a	Optomechanics I.		
230	TP22_011	L2 BT vacuum chambers incl. supporting frames		
231	TP22_022	Renewable Energy OPŽP - FVE		
232	TP22_010	Manufacture of Pulse Compression Diffraction Gratings		
233	VS-2014/04	MoU for collaboration in the field of technology transfer	European Organization for Nuclear Research (CERN)	19.05.2014
234	VS-2014/09	MoU for TANGO Collaboration	European Synchrotron Radiation Facility	09.09.2014
235	VS-2014/14	Dohoda o vzájemné spolupráci mezi Fyzikálním ústavem AV ČR a Centrem CERIT-SC	Centrum CERIT-SC, Ústav výpočetní techniky, Masarykova univerzita	09.01.2015
236	VS-2015/04	MoU on terms and conditions of mutual cooperation	Faculty of Mathematics, Informatics and Natural Sciences (MIN), Universität Hamburg	04.06.2015
237	VS-2015/06	MoU on the terms and conditions of mutual cooperation (kopie)	Technische Universität Berlin (TUB)	10.06.2015

238	VS-2015/08	LoI for a joint experimental campaign on "Laser driven proton acceleration from H2 cryogenic target"	Commissariat a l'Energie Atomique et aux Energies Alternatives (CEA) Institute of Plasma Physics, ASCR	14.07.2015
239	VS-2016/27	MoU on ELI-ERIC	ELI Attosecond Light Pulse Source ELI Nuclear Physics	18.02.2016
240	VS-2016/38	MoU - Agreement on the terms and conditions of mutual cooperation	Institute of Physical Chemistry, Polish Academy of Sciences	10.10.2016
241	VS-2016/40	Rámcová smlouva o základních zásadách vzájemné spolupráce	CARDAM s.r.o.	27.10.2016
242	VS-2016/41	MoU on the terms and conditions of mutual cooperation	Jan Kochanowski University in Kielce	08.11.2016
243	VS-2017/01	Agreement on the access to electron beam (VS-2015/17)	Elettra - Sincrotrone Trieste S.C.p.A.	02.01.2017
244	VS-2018/9	MoU regarding their scientific and other related cooperation	Centro De Laseres Pulsados (CLPU)	15.05.2018
245	VS-2018/12	MoU regarding scientific and other related cooperation on Laser-Plasma Interaction Experiments using Multi-PW Lasers and associated Theory & Simulation Activities	Shanghai Institute of Optics and Fine Mechanics (SIOM)	29.06.2018
246	VS-2018/13	MoU regarding scientific and other related cooperation	Institute of Plasma Physics and Laser Microfusion	19.07.2018
247	VS-2018/19	MoU regarding scientific and other related cooperation - optoelectronics	Wroclaw University of Science and Technology	25.09.2018
248	VS-2018/20	MoU regarding scientific and other related cooperation - laser driven plasmas	Institute of Laser Engineering, Osaka University	25.09.2018
249	VS-2018/21	MoU regarding scientific and other related cooperation - high intensity laser matter interaction, laboratory astrophysics with short pulse laser matter interaction	Tata Institute of Fundamental Research (TIFR)	07.09.2018
250	VS-2018/31	Cooperation Agreement - Czech Hamburg Advanced Medical and Photonics Project - CHAMPP	Deutsches Elektronen-Synchrotron DESY Universität Hamburg	24.09.2018
251	VS-2018/33	MoU regarding scientific and other related cooperation	Lund University, Department of Chemistry	06.12.2018

252	VS-2018/34	MoU regarding scientific and other related cooperation	New Mexico State University	13.12.2018
253	VS-2019/15	Partnership Agreement - Development of an ultrafast, high-resolution X-ray camera systém	Technische Hochschule Mittelhessen Brueckmann Elektronik GmbH Rigaku Innovative Technologies Europe s.r.o.	19.08.2019
254	VS-2019/19	Partnership Agreement - Development of an universal wavefront measuring device on newly-developed wavefront sensor (DHS sensor)	Technische Hochschule Mittelhessen DIOPTIC GmbH MEOPTA - optika, s.r.o.	16.08.2019
255	VS-2019/20	MoU regarding scientific and other cooperation	Laboratory for Laser Energetics (LLE) - University of Rochester, 500 Wilson Boulevard, Rochster, NY 14627 USA	26.10.2019
256	VS-2020/2	Cooperation on development of laser technologies	The Institute of Scientific and Industrial Research, Osaka University, Japan	13.01.2020
257	VS-2020/9	laser matter interactions	Marvel Fusion GmbH	08.06.2020
258	VS-2020/10	joint scientific experiments, academic exchanges	University of Southampton	23.06.2020
259	VS-2020/11	joint research and workshops, exchange of personnel and technical knowledge	Industrial Technology Research Institute (ITRI)	25.05.2020
260	VS-2020/14	joint research and development activities aimed at analysis and planning of modern experiments on the development of compact particle acceleration facilities based on the action of an ultra-fast radiation on plasmas	The Keldysh Institute of Applied Mathematics	24.09.2020
261	VS-2020/15	Spolupráce ohledně výzkumných činností s hostoricky cennými předměty	Archeologický ústav AV ČR, v.v.i.	05.10.2020
262	VS-2020/21	colaboration in framework of particle beam transport, dosimetry and radiobiology	Istituto Nazionale di Fisica Nucleare	24.09.2020

263	VS-2020/27	Integrated Management and reliable oPerations for User-based Laser Scientific Excellence	1/Association Internationale Extreme Light Infrastructure Delivery Consortium 2/ Eli-Hu Kutatasi es Fejlesztesi nonprofit kozhasznu korlatolt felelossegu tarsasag 3/ Institutul National De Cercetare Dezvoltare Pentru Fizika Si Inginerie Nucleara Horia Hulubei 4/ Technische Universitat Darmstadt 5/ United Kingdom Research and Innovation 6/ Consorcio Para el Diseno, Construccion, Equipamiento y Explotacion del Centro de Laseres Pulsados Ultracortos Ultraintensos 7/ Ludwig-Maximilians Universitaet Muenchen 8/ Consiglio Nazionale delle Ricerche 9/ Elettra - Sincrotrone Trieste SCPA 10/ Helmholtz zentrum Dresden Rosendorf EV 11/ Instituto Superior Tecnico 12/ Istituto Nazionale di Fisica Nucleare 13/ The Queens University of Belfast 14/ Idryma Technologias Kai Erevnas	01.11.2020
264	VS-2020/29	Research of high intensity laser physics (extends MoU under VS_2017/25)	National Institutes for quantum and radiological science and technology, Kansai Photon Science Institute	11.12.2020

265	VS-2021/3	ELI - ERIC	MŠMT -Ministerstvo školství, mládeže a tělovýchovy České republiky	20.01.2021
266	VS-2021/4	Agreement on Cooperation	Sorbonne Université	22.01.2021
267	VS-2021/5	Memorandum of Understanding + Institution Licence Agreement - FLUKA CERN	CERN - The European Organization for Nuclear Research	15.02.2021
268	VS-2021/12	Memorandum of Understanding for a scientific collaboration "High Energy Density Physics"	Technische Universität Darmstadt	06.05.2021
269	VS-2021/23	MoU - scientific and other related cooperation	Instituto Nazionale di Ottica, Consiglio Nazionale delle Richerche (CNR-INO)	27.10.2021
270	VS-2021/24	MoU - collaboration in pulsed radiation science and technology	National Synchrotron Radiation Research Center	09.12.2021
271	VS-2021/25	MoU on Collaborative Program on Development of High Power Lasers Technologies for Industrial and Scientific Applications	VINČA - Institute of nuclear sciences, University of Belgrade	05.10.2021
272	VS-2022/3	MoU on joint activities in accelerator physics and its applications	Royal Holloway and Bedford New College (RHUL)	09.03.2022
273	VS-2022/8	Memorandum of Understanding for Scientific Collaboration between ELI	Focused Energy GmbH, 64293 Darmstadt, Germany	17.08.2022

Annex 3

Approvals

RNDr. Michael Prouza, Ph.D.

Ředitel Fyzikálního ústavu AV ČR, v. v. i.

V Praze dne 26. září 2022

Věc: **Smlouva o převodu výzkumného centra ELI Beamlines mezi Fyzikálním ústavem AV ČR, v.v.i., a The Extreme Light Infrastructure ERIC**

Dozorčí rada Fyzikálního ústavu AV ČR, v. v. i., dne 26. září 2022 projednala *per rollam* návrh Smlouvy o převodu výzkumného centra ELI Beamlines, která má být uzavřena mezi Fyzikálním ústavem AV ČR, v.v.i., a The Extreme Light Infrastructure ERIC, IČO: 109 74 938, a jejíž předmětem je převod centra ELI Beamlines nacházejícího se na adrese Za Radnicí 835, Dolní Břežany, 252 41 (dále jen „**Smlouva**“).

K návrhu Smlouvy se bez připomínek vyjádřilo všech šest členů Dozorčí rady.

Dozorčí rada Fyzikálního ústavu AV ČR, v. v. i., proto podle ustanovení § 19 odst. 1) písm. b), zákona č. 341/2005 Sb.,

vydává předchozí písemný souhlas s uzavřením Smlouvy s The Extreme Light Infrastructure ERIC, IČO: 109 74 938.

Digitálně podepsal doc.Ing Luboš Náhlík, Ph.D.
Datum: 2022.09.26 22:46:02 +02'00'

Doc. Ing. Luboš Náhlík, Ph.D.

Předseda DR Fyzikálního ústavu AV ČR, v. v. i.

Fyzikální ústav Akademie věd České republiky, v. v. i.
Na Slovance 1999/2
182 21 Praha 8
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Souhlas zřizovatele

Česká republika - Akademie věd České republiky, organizační složka státu, se sídlem Praha 1, Národní 1009/3, IČO 60165171, jako zřizovatel pracoviště - Fyzikální ústav AV ČR, v. v. i., Praha 8, Na Slovance 2, IČO 68378271,

uděluje ve smyslu ust. § 15 písm. k) zákona č. 341/2005 Sb., o veřejných výzkumných institucích, v platném znění, uvedenému pracovišti **předchozí souhlas** k následujícímu právnímu jednání:

uzavření Smlouvy o převodu centra ELI Beamlines (Agreement on the transfer of the ELI Beamlines Facility) mezi Fyzikálním ústavem AV ČR, v. v. i., jako převodcem (v dokumentu označován jako "FZU") a The Extreme Light Infrastructure ERIC, konsorcium evropské výzkumné infrastruktury, IČO: 10974938, se sídlem Za Radnicí 865, 252 41 Dolní Břežany, jako nabyvatelem (v dokumentu označován jako "ELI ERIC"), a to bezúplatně ve veřejném zájmu.

O udělení souhlasu k tomuto právnímu jednání rozhodla Akademická rada AV ČR na svém 16. zasedání konaném dne 4. října 2022.

Praha, 14. 10. 2022
Čj.: AVCR 7364/1/2022 MK

Ing. Pavel Janáček, Ph.O.
člen Akademické rady AV ČR
a předseda Majetkové komise AV ČR

i.s. prof. RNDr. Eva Zažímalová, CSc., předsedkyně AV ČR

Annex 4

List of Building Contracts

Item	Contract number	Title	Contractual partner
1	42/2013	Sdružení MVO – ELI II, sestávajícím z vedoucího účastníka Metrostav a.s., IČ 00014915, a dalších účastníků VCES	Sdružení MVO - ELI II
2	S14/209E	Sdružení MVO – ELI II, sestávajícím z vedoucího účastníka Metrostav a.s., IČ 00014915, a dalších účastníků VCES	Společnost MVO - ELI 2
3	S17/142E	Úpravy chlazení v halách L3 a S2	Area TZB a.s.
4	S17/147E	Spřažení a injektáž podlahy v hale E1	Amteko international, s.r.o.
5	S17/062E	Opravy podlah v laserových halách L1, L2, L3 a L4b - Realizace	Constructing s.r.o.
6	S17/133E	Oprava podlahy v hale E3	Constructing s.r.o.
7	S17/219E	Oprava podlah v halách	Constructing s.r.o.
8	S17/254E	Upravy rozvodu chlazeni exp podlazi	INSTALACE Praha, spol. s r.o.
9	S17/256E	Kantýna - stavební část	" A L L E G R O " s.r.o.
10	S18/180E	E5 - Fixing Block	Sekores Praha s.r.o.
11	S18/166E	Upravy chlazeni hala E4	Area Servis a.s.

12	S18/208E	Stavební práce spojené s úpravou vody, vodního okruhu a chlazení	Area TZB a.s.
13	S18/252E	Kantýna - vzduchotechnický strop GIF	Blažek Gastro, s.r.o.
14	S18/251E	Kantýna - gastrotechnologie	MARCCRAB GASTRO CB s.r.o.
15	S18/075E	"Vestavba prostor BIOLAB"	WEISS TECHNIK Praha spol. s r.o.
16	S18/275E	Chlazení "Oddělení hal L1, L2, L4b, úprava okruhu CH7c"	Area TZB a.s.
17	S19/126E	Provádění stavebních prací	" A L L E G R O " s.r.o.
18	S19/134E	"HPC Cluster ELI2"	Atos IT Solutions and Services, s.r.o.
19	S19/254E	Protihluková opatření	Gentech s.r.o.
20	S20/002E	Dodávka a montáž rozvodů chlazení ve výzkumné hale E5	Area TZB a.s.
21	S20/164E	Stavební úpravy ERIC	" A L L E G R O " s.r.o.
22	S20/217E	Kompletační stavební práce v E5	Gentech s.r.o.
23	S20/218E	Stavební příprava LabS2 pro vestavbu laboratorních prostor	LIKO-S, a.s.
24	S21/165E	Posílení el. přívodu pro servisní podlaží	c.e.c. - czech energy centre s.r.o.

Annex 5

List of internal directives and rules

Rules	
No.	Title
REG 02	Management Board Meeting Rules of Procedure
REG 03	Provozni rad ELI Beamlines
REG 04	User Access Procedure
REG 05	ELI Beamlines Quality management Systém
REG 06	International Scientific Advisory Committee (ISAC) Charter
REG 07	Radiation Protection Committee charter
REG 08	Laser Safety Committee charter
REG 09	Job Position Systemization and Remuneration
Directives	
No.	Title
DIR 01	Management of Documented Information
DIR 05	ELI Project Scheduling and Reporting
DIR 06	Publication Policy and Guidelines for Authors
DIR 07	Mobile Phones
DIR 08	ELI Beamlines 3D Master Model Management
DIR 09	Metrology Management Process
DIR 10	Cleanlines and Contamination Control in Vacuum system
DIR 11	Cleaning Methods, Tools and Procedures
DIR 13	User manual for CR / Uživatelský manual ČP
DIR 14	Clean Room Sanitation
DIR 15	CR Monitoring
DIR 17	CR Operation
DIR 18	Management of ICT
DIR 19	Outside of Work Activities in ELI Beamlines Premises
DIR 20	ELI name convention and addressing for electrical components
DIR 21	Entry into Clean rooms Directive
DIR 26	Risk Management Control Plan
DIR 27	Administration and Approval of Grant Applications
DIR 28	Requirements Control
DIR 31	Document Control Plan DCP (EDMP Eli Documentation Management Plan)

DIR 32	Nonconformance Control Process
DIR 33	Change Control Plan
DIR 34	CCTV Service Regulations
DIR 35	Directive Tender and Payment planning
DIR 36	Transportation Traffic directive
DIR 37	Lock out and Tagout procedury
DIR 40	Dangerous Goods Transportation (ADR)
DIR 41	Security organization ELI-Beamlines
DIR 43	Technology Readiness Review Program (TRRP)
DIR 44	Stanovení organizace zabezpečení požární ochrany
DIR 45	Entry conditions for outsources EN & CZ
DIR 46	Směrnice pro činnost preventivní požární hlídky
DIR 47	Řád ohlašovny požáru
DIR 48	Traumatology Plan EN & CZ
DIR 49	Hodnocení rizik - pracovní profese
DIR 50	Waste Management
DIR 51	Beryllium Management Program
DIR 52	Program zajištění radiační ochrany - TERESA
DIR 53	Fire Alarm Regulation
DIR 54	Fire Escape Plan
DIR 55	Emergency plan (water management)/Havarijní plán (ochrana vod)
DIR 56	System bezpecne prace pro provoz zdvihacich zarizeni
RŘ-29/2008	Provoz laboratoří v mimopracovní době
S/26	Program monitorování pro nakládání se zdrojem ionizujícího záření
S/19	Podmínky ochrany zdraví při práci s biologickými činiteli
RŘ-228/2019	Školení o nakládání s tlakovými nádobami na plyny zaměstnanců pracovišť Na Slovance
RŘ-169/2019	Školení o nakládání s chemickými látkami a chemickými směsmi
RŘ-66/2016	Zpracování seznamu nebezpečných látek
RŘ-19/2016	Skladování nebezpečných chemických látek a chemických směsí
RŘ-202/2012	Poskytování osobních ochranných prostředků zaměstnancům FZÚ
RŘ-4/2002	Postup pro hlášení a evidenci pracovních úrazů
Manuals	
No.	Title
MAN 01	EHS Manual
MAN 02	Laser Safety Manual
MAN 03	Environmental Protection Manual
MAN 04	Electrical Safety Manual
MAN 05	Biosafety Manual
MAN 06	Gas safety manual
MAN 07	Chemical safety manual
MAN 08	Occupational safety manual

MAN 09	Radiation Protection Manual
MAN 10	User safety manual
Operational Procedures	
No.	Title
ORL 02	Operational Rules - Rad Lab LB.2.17
ORL 03	Operational Safety Procedures L3 hall
ORL 04	00158705/B - Provozni rad BioCHEMLab
ORL 05	Provozní řád CHEMLab
ORL 06	Operating Rules of Space for Leisure Activity (The Barn)
ORL 07	Operating Rule of Warehouse ELI 2
ORL 08	Provozní řád mechanické dílny ELI 2
ORL 09	Místní provozní řád kotelny ELI
ORL 10	Místní provozní řád kotelny ELI2
ORL 11	Provozní řád návštěvnická mísnost (dětský koutek)
ORL 12	Operation Safety Procedures L1 hall
ORL 13	Operational Safety Procedures E1 hall
ORL 14	Operational Safety Procedure P3 High Voltage Pulsed Power Systém
ORL 15	Operational rules for E4
ORL 16	Operational rules for LuisLab
ORL 17	Operational rules for E3
ORL 18	Operational Rules - "Karcher" room LB.02.18
ORL 19	Operation rules stores S1 and S3
ORL 20	Požární řád pro místnost dieselagregátu
ORL 21	Operational Rules - Control system Workshop LB.1.08
ORL 22	Operational Rules - Fine Mechanical Workshop LB 1.03
ORL 24	Operational Rules - Electro-technical Workshop LB.1.06
ORL 25	Operational Rules - Assembly and Experimental Preparation Area LB.02.13
ORL 26	Operational Rules - Assembly and Experimental Preparation Area LB.02.14
ORL 28	Operational Rules - Workshop LB.1.20
ORL 29	Operational Rules - Workshop LB.1.19
ORL 30	Operational Rules - Workshop Control Systems LB.1.19 bult in
ORL 31	Operational Rules - Ultrasonic cleaning workshop LB.01.14 and LB.01.15
ORL 32	Operational Rules - Target Lab LB.2.38
ORL 37	Operational Safety Procedures L4b hall
ORL 38	Operational Rules - ELI BIOLab general area
Instructions and methodics	
číslo	název
IAM01	Guide for Acceptance Protocol
IAM02	Instalation Process Document
IAM03	EMP_EMC Shielding efficiency measurement of E3 hall
IAM04	GAM Design Safety Engineering Standards/Guidelines
IAM05	Metodika pro poskytování služeb - strážní pravidla

IAM06	Standardized RSD wording_Pokyny_Instructions for_VCD_CZ_EN
IAM07	CTA User guide
IAM08	IAM08 Remuneration Methodology 2021
IAM09	Guide for preparation of the EU declaration of conformity
IAM10	PBS manual
IAM12	Elektro provozní předpis
IAM13	Room cards

FZU Fyzikální ústav Akademie věd České republiky

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Annex 6

List of grants

Grant provider	Source	Grant title	Grant number
Grantová agentura ČR (Czech Science Foundation)	GAČR	Clarifying quantum limits in biomolecules by utilizing entangled photons generated from protein bound cofactor modeled on orange carotenoid protein	21-09692M
		Driving Charge Transport in Chromophore-Protein Complexes through Tryptophan Pathways	21-05180S
		Femtosecond time-resolve experiments in the extreme ultraviolet region	23-08006S, application
		Femtosecond x-ray probing of electronic transitions inducing enchanced non-linear absorption in metal nanoparticles/reduced graphene oxide nanocomposites	23-05903S, application
		Laser-driven proton-boron nuclear fusion: A multidisciplinary design of advanced polymer-boron targets	23-04940S, application
		Long and Short: THz enhancement of XUV wavelengths	23-05783S, application
		Online characterization of laser-induced radiation fields	23-06523M, application
		Particle Acceleration Studies in Astrophysical Jets	20-19854S
		Probing Non-adiabatic Dynamics in Perovskites by Time resolved X-ray diffraction	23-06331K, application
		Protein and peptide raster scanning crystallography in lipidic cubic phases	23-05605S, application
		QuBEC: Quantum Biology with Electron Crystallography	23-06753S, application
		Revising radiation emission models in extreme laser fields	23-05568S, application
		Strong Field QED plasma physics at and beyond PW-class laser facilities	22-42963L, application Lead Agency: NSF (US)

		Structural studies of membrane proteins using 3D electron crystallography and lipidic mesophases	23-05879M, application
		Study of gamma-ray generation in high-intensity laser-plasma interactions at ELI Beamlines	22-42890L
		Time and space resolved ultra-strong magnetic field probing from Relativistic Laser Plasma interaction (RLPI) in ultrathin targets at ELI Beamlines	22-72888L, application Lead Agency: NSF (US)
		Ultra-high dose rate electron radiation effects on silicon-based semiconductor systems	23-07225S, application
		Ultrashort pulse laser-stimulated X-ray parametric down-conversion in semiconductor heterostructures	23-05781S, application
Magistrát hlavního města Prahy (City of Prague Magistrate)	OP Praha	Non-destructive testing method of monuments	CZ.07.1.02/0.0/0.0/17_049/0000831
MŠMT (Ministry of Education, Youth and Sports)	OP VaVpI	ELI: EXTREME LIGHT INFRASTRUCTURE (ELI: EXTREME LIGHT INFRASTRUCTURE - Phase I)	CZ.1.05/1.1.00/02.0061
	OP VVV	ADONIS - Advanced research using high intensity laser produced photons and particles	CZ.02.1.01/0.0/0.0/16_019/0000789
		ELI: EXTREME LIGHT INFRASTRUCTURE - Phase II	CZ.02.1.01/0.0/0.0/15_008/0000162
		ELIBIO - Strukturní dynamika biomolekulárních systémů	CZ.02.1.01/0.0/0.0/15_003/0000447
		ELITAS - Extreme Light Infrastructure Tools for Advanced Simulation	CZ.02.1.01/0.0/0.0/16_013/0001793
		HIFI - High Field Initiative	CZ.02.1.01/0.0/0.0/15_003/0000449
MŽP (Ministry of the Environment of the Czech Republic)	MŽP, OP ŽP 2014-2020	Fyzikální ústav AV ČR - kogenerační jednotka	CZ.05.5.11/0.0/0.0/20_152/0015246
		Fyzikální ústav AV ČR - FVE	CZ.05.5.11/0.0/0.0/20_152/0015245

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Annex 7

List of non-transferable emloyees

Name of employee / mobility project
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Name of employee / support of Ukrainian employees CAS
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