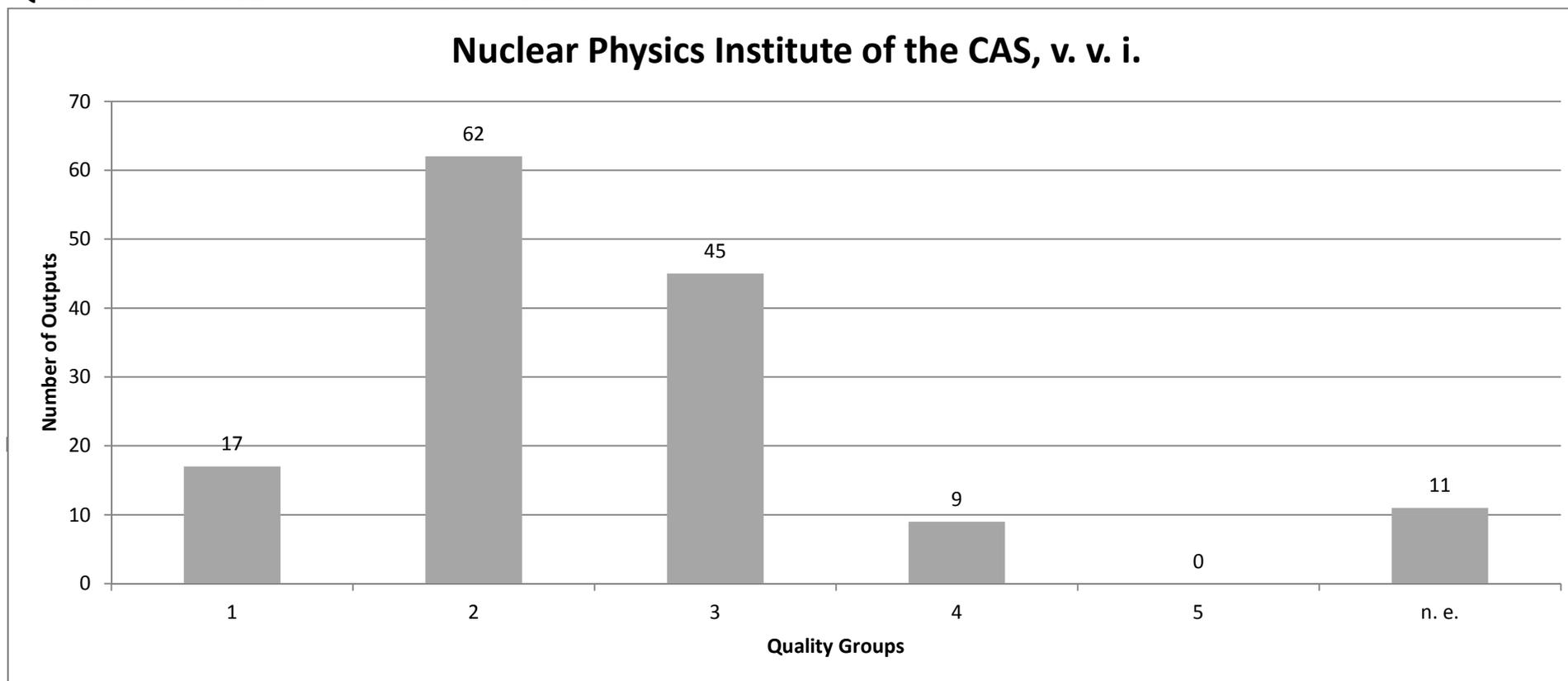


### QUALITY PROFILES - SUMMARY GRAPH



**Quality Groups:**

**(1):** Quality that is **world-leading** in terms of originality, significance and rigour.

**(2):** Quality that is **internationally excellent** in terms of originality, significance and rigour but which falls short of the highest standards of excellence.

**(3):** Quality that is **recognized internationally** in terms of originality, significance and rigour.

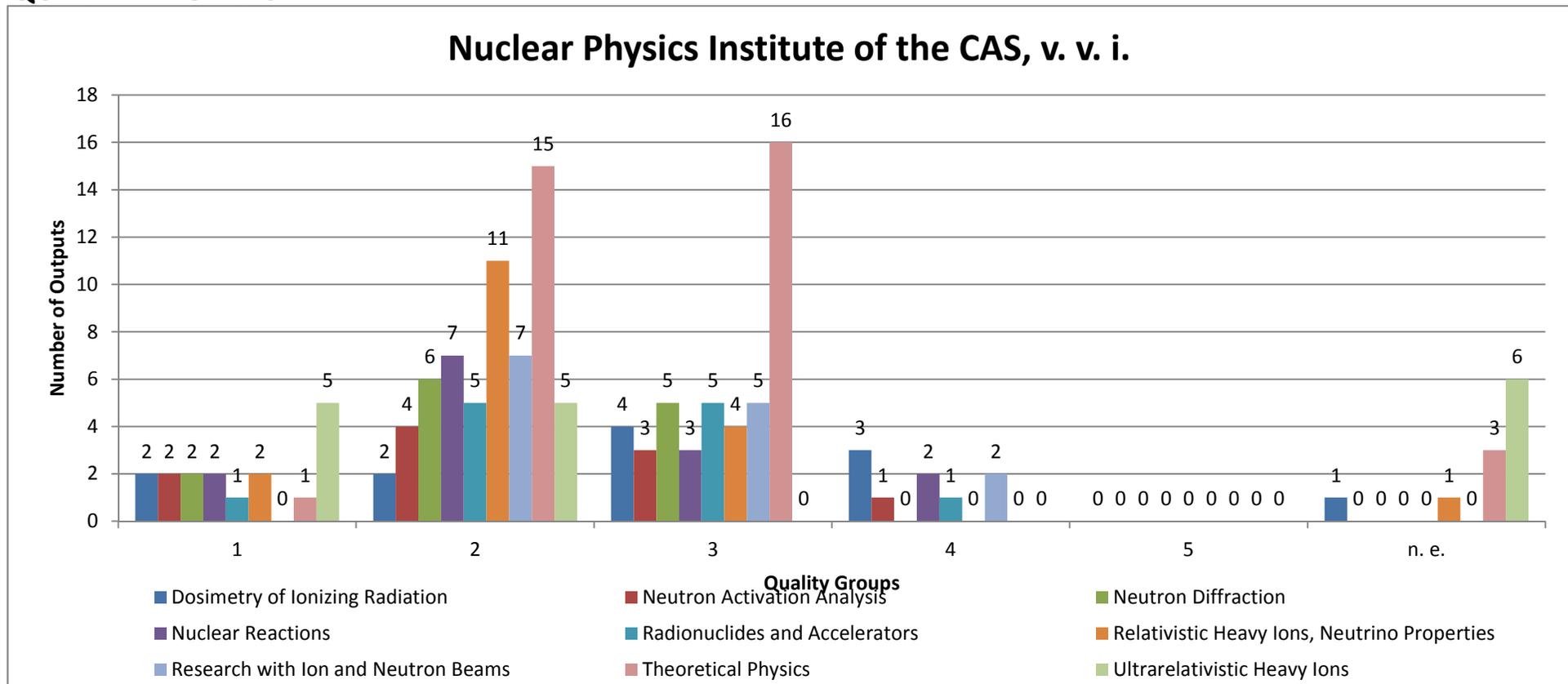
**(4):** Quality that is **recognized nationally** in terms of originality, significance and rigour.

**(5):** Quality that falls **below the standard** of nationally recognized work. Or work which does not meet the published definition of research for the purposes of this assessment.

**n. e.** - outputs submitted by the team but not evaluated in the Phase I.

This plot is presented as an aggregate of data from the Phase I of evaluation for convenience of evaluators in the Phase II.

**QUALITY PROFILES**



**Quality Groups:**

**(1):** Quality that is **world-leading** in terms of originality, significance and rigour.

**(2):** Quality that is **internationally excellent** in terms of originality, significance and rigour but which falls short of the highest standards of excellence.

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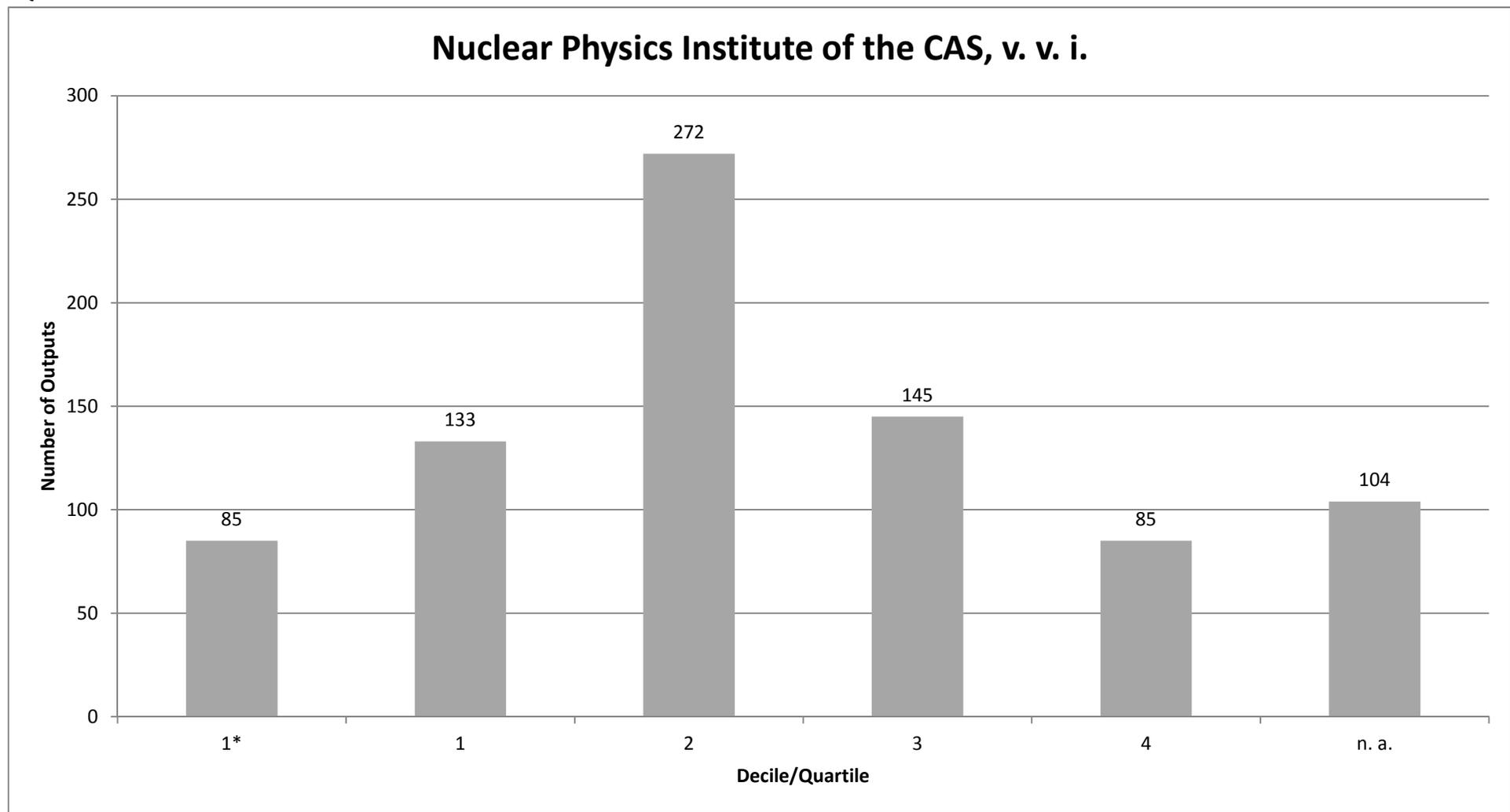
**(4):** Quality that is **recognized nationally** in terms of originality, significance and rigour.

**(5):** Quality that falls **below the standard** of nationally recognized work. Or work which does not meet the published definition of research for the purposes of this assessment.

**n. e.** - outputs submitted by the team but not evaluated in the Phase I.

This plot is presented as an aggregate of data from the Phase I of evaluation for convenience of evaluators in the Phase II; the columns represent outputs (not productivity) and cannot be directly compared each other.

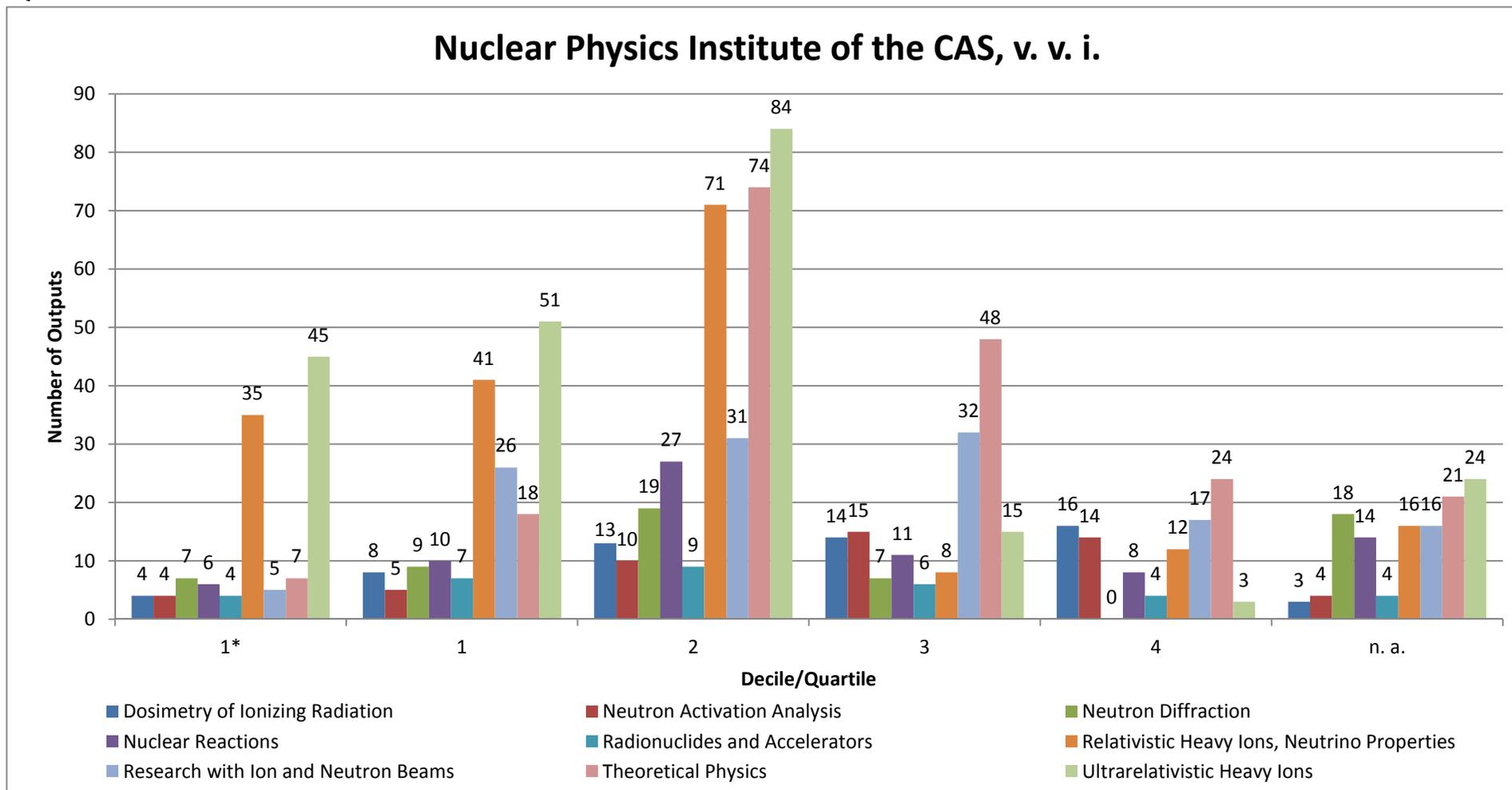
**QUALITY OF OUTPUTS BY JOURNALS - SUMMARY GRAPH**



Number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down).

This plot is presented as an aggregate of bibliometric data for convenience of evaluators.

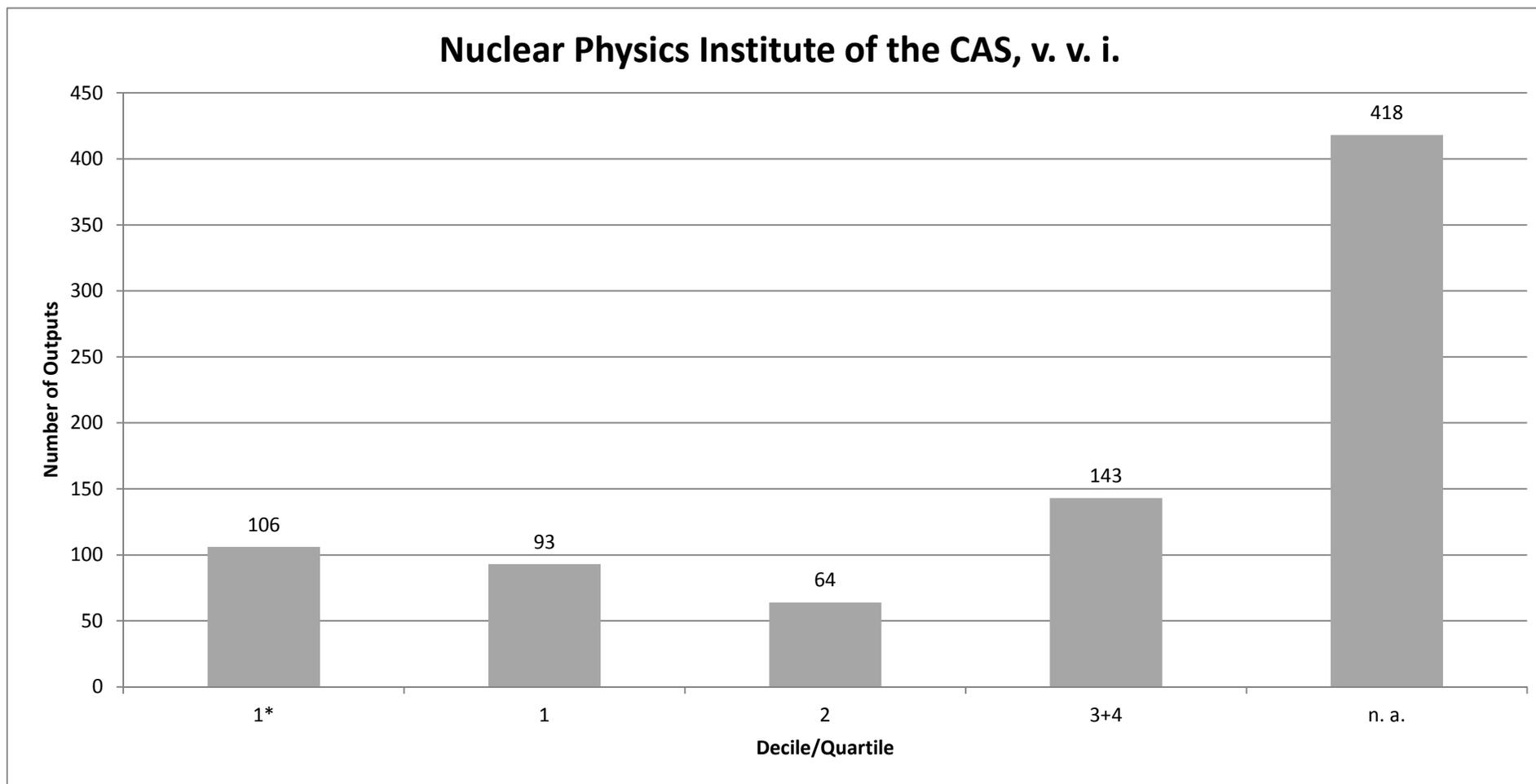
**QUALITY OF OUTPUTS BY JOURNALS**



Number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down).

This plot is presented as an aggregate of bibliometric data for convenience of evaluators; the columns represent outputs (not productivity) and cannot be directly compared each other.

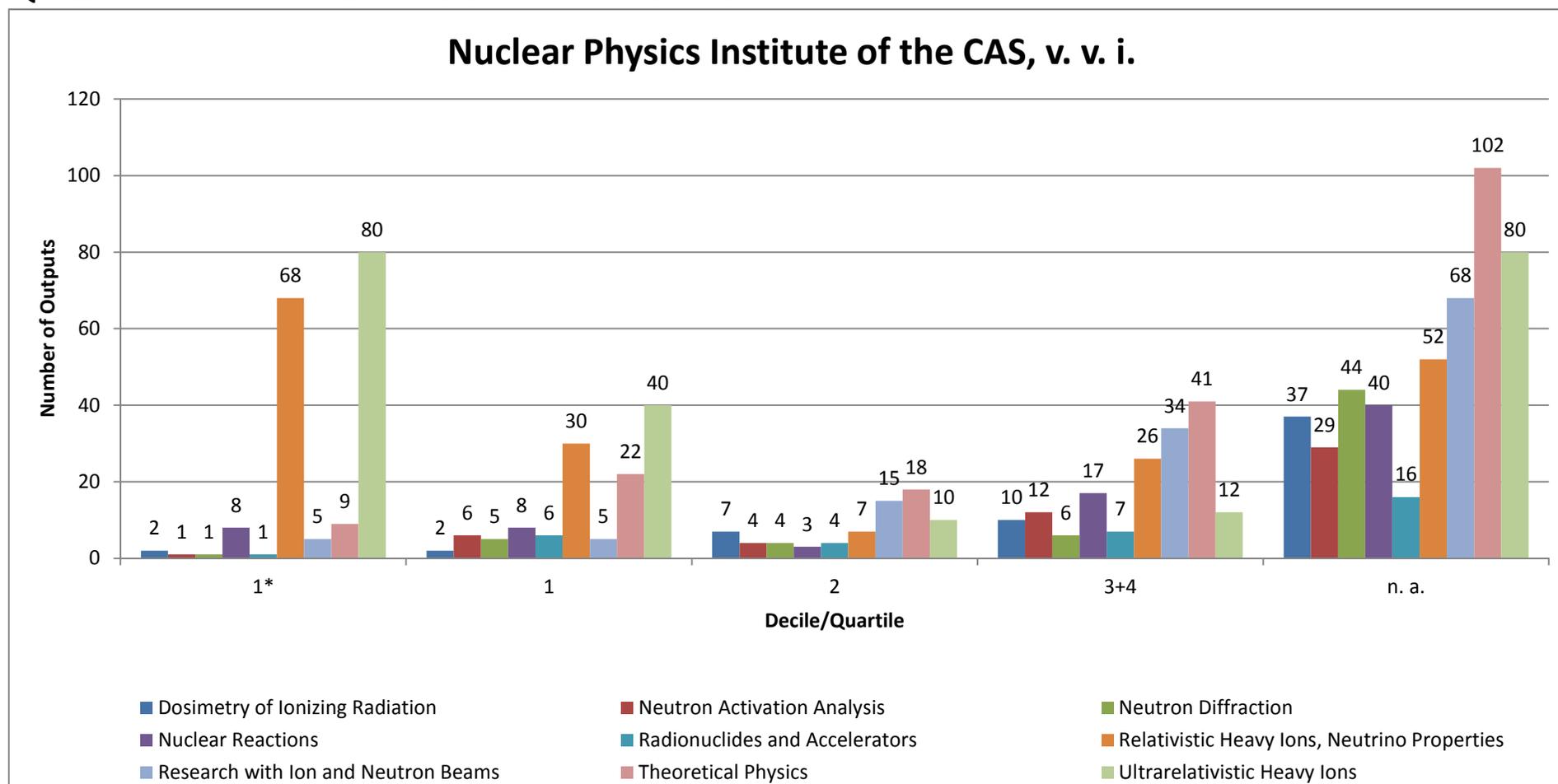
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2010–2014  
**QUALITY OF OUTPUTS BY INTENSITY OF CITATIONS - SUMMARY GRAPH**



Number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) of the list of outputs ordered by the number of citations; n. a. - the number of outputs in the field is low and/or the number of citations is not sufficient for relevant judgement; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down).

This plot is presented as an aggregate of bibliometric data for convenience of evaluators.

### QUALITY OF OUTPUTS BY INTENSITY OF CITATIONS



Number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) of the list of outputs ordered by the number of citations; n. a. - the number of outputs in the field is low and/or the number of citations is not sufficient for relevant judgement; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down).

This plot is presented as an aggregate of bibliometric data for convenience of evaluators; the columns represent outputs (not productivity) and cannot be directly compared each other.

**Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2010–2014**  
**RESULTS OF THE PHASE I. AND BIBLIOMETRIC PARAMETERS**

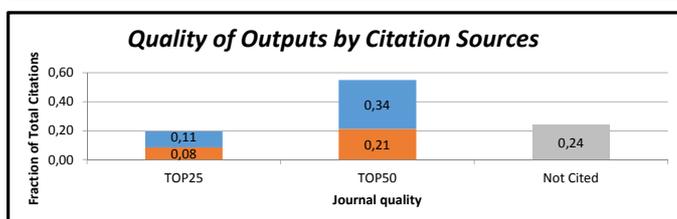
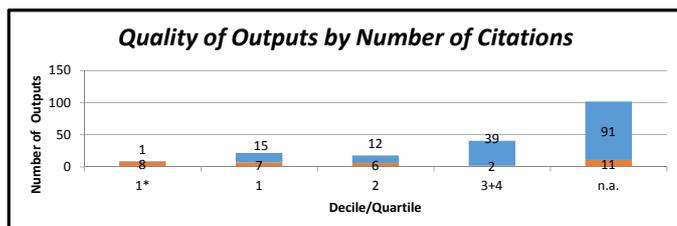
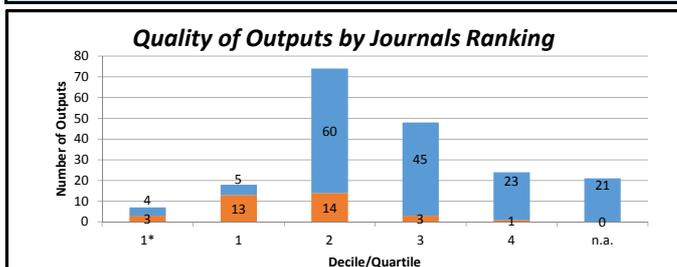
**Institute:** Nuclear Physics Institute of the CAS, v. v. i.  
**Team:** Theoretical Physics  
**Head:** Hošek Jiří  
**Total number of outputs :** 224      **Evaluated outputs :** 35 (3)      **Outputs for bibliometry :** 192      **Large collaborations outputs:** 6

**Quality Groups of Outputs (Results of the Phase I.)**

Quality	1	2	3	4	5
Outputs	1	15	16	0	0

**Quality Groups:**

- (1): Quality that is **world-leading** in terms of originality, significance and rigour.
- (2): Quality that is **internationally excellent** in terms of originality, significance and rigour but which falls short of the highest standards of excellence.
- (3): Quality that is **recognized internationally** in terms of originality, significance and rigour.
- (4): Quality that is **recognized nationally** in terms of originality, significance and rigour.
- (5): Quality that falls **below the standard** of nationally recognized work. Or work which does not meet the published definition of research for the purposes of this assessment.



**Field Structure of Outputs**

Field Structure of Outputs	Outputs
PHYSICS, MULTIDISCIPLINARY	75
PHYSICS, NUCLEAR	47
PHYSICS, MATHEMATICAL	17
ASTRONOMY & ASTROPHYSICS	15
MATHEMATICS	12
MATHEMATICS, APPLIED	6
PHYSICS, PARTICLES & FIELDS	5
PHYSICS, ATOMIC, MOLECULAR & CHEMICAL	2
OPTICS	2
PHYSICS, CONDENSED MATTER	1
ENERGY & FUELS	1
ENGINEERING, MULTIDISCIPLINARY	1
COMPUTER SCIENCE, THEORY & METHODS	1
PHYSICS, APPLIED	1

**Total number of outputs:** selected types of outputs published in 2010-2014 and registered in the institutional research information system: journal article, monograph, monograph chapter, proceedings paper, patent, utility model, industrial design, prototype, functional specimen, norms and directives, specialized map, realized certified methodology, software, pilot plant, verified technology, plant breed/variety.

**Evaluated outputs:** outputs submitted by the team and evaluated in the Phase I (value in the brackets shows number of outputs submitted by the team but not evaluated in the Phase I).

**Outputs for bibliometry:** publications in 2010-2014 registered in the Web of Science; document type: article, review or proceedings paper; large collaborations outputs are also included.

**Large collaborations outputs:** publications in 2010-2014 with more than 30 authors registered in the Web of Science; document type: article, review or proceedings paper.

**Quality Profile:** number of evaluated outputs vs quality groups (5 groups); 'world-leading' quality denotes an absolute standard of quality in each field and subfield; 'world leading', 'internationally' and 'nationally' in this context refer to quality standards; they do not refer to the nature or geographical scope of particular subjects, nor to the focus of research nor its place of dissemination; for example, research which is focused on the subject specific to the Czech Republic might be of 'world leading' standard, on the contrary, work with an international focus might not be of 'world leading, internationally excellent or internationally recognized' standard.

**Quality of Outputs by Journals Ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Quality of Outputs by Number of Citations:** number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) of the list of outputs ordered by the number of citations; n. a. - the number of outputs in the field is low and/or the number of citations is not sufficient for relevant judgement; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Quality of Outputs by Citation Sources:** fraction of citations of all outputs in the top quartile (TOP25) or the top half (TOP50) of list of journals ordered by AIS; fraction of "not cited" outputs is added; orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Field Structure of Outputs:** number of outputs of the team in different fields; if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of Outputs by Journals Ranking) is taken; the table shows up to 30 fields.

**Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2010–2014**  
**RESULTS OF THE PHASE I. AND BIBLIOMETRIC PARAMETERS**

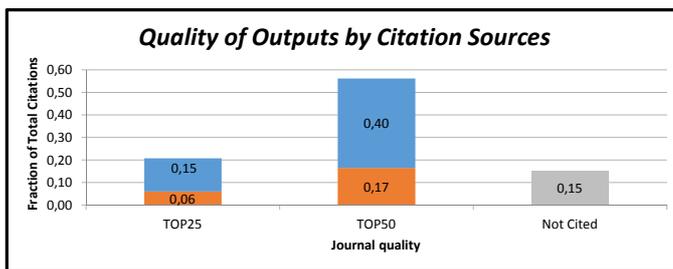
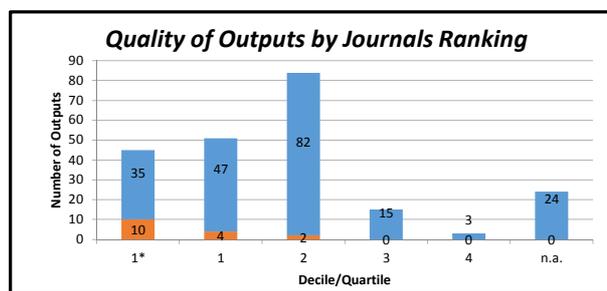
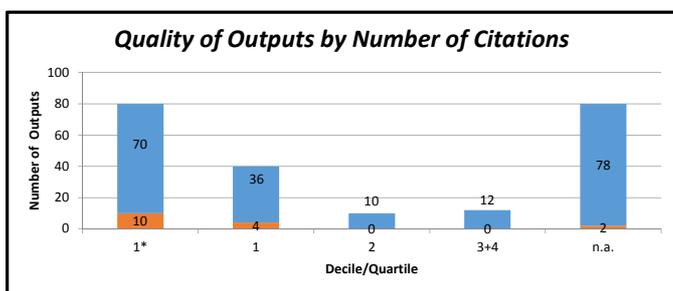
**Institute:** Nuclear Physics Institute of the CAS, v. v. i.  
**Team:** Ultrarelativistic Heavy Ions  
**Head:** Bielčíková Jana  
**Total number of outputs :** 240      **Evaluated outputs :** 16 (6)      **Outputs for bibliometry :** 222      **Large collaborations outputs:** 185

**Quality Groups of Outputs (Results of the Phase I.)**

Quality	1	2	3	4	5
Outputs	5	5	0	0	0

**Quality Groups:**

- (1): Quality that is **world-leading** in terms of originality, significance and rigour.
- (2): Quality that is **internationally excellent** in terms of originality, significance and rigour but which falls short of the highest standards of excellence.
- (3): Quality that is **recognized internationally** in terms of originality, significance and rigour.
- (4): Quality that is **recognized nationally** in terms of originality, significance and rigour.
- (5): Quality that falls **below the standard** of nationally recognized work. Or work which does not meet the published definition of research for the purposes of this assessment.



Field Structure of Outputs	Outputs
PHYSICS, MULTIDISCIPLINARY	84
PHYSICS, NUCLEAR	78
PHYSICS, PARTICLES & FIELDS	24
ASTRONOMY & ASTROPHYSICS	15
INSTRUMENTS & INSTRUMENTATION	7
NUCLEAR SCIENCE & TECHNOLOGY	5
PHYSICS, APPLIED	3
MULTIDISCIPLINARY SCIENCES	2
COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS	1
ENVIRONMENTAL SCIENCES	1
PHYSICS, ATOMIC, MOLECULAR & CHEMICAL	1
COMPUTER SCIENCE, THEORY & METHODS	1

**Total number of outputs:** selected types of outputs published in 2010-2014 and registered in the institutional research information system: journal article, monograph, monograph chapter, proceedings paper, patent, utility model, industrial design, prototype, functional specimen, norms and directives, specialized map, realized certified methodology, software, pilot plant, verified technology, plant breed/variety.

**Evaluated outputs:** outputs submitted by the team and evaluated in the Phase I (value in the brackets shows number of outputs submitted by the team but not evaluated in the Phase I).

**Outputs for bibliometry:** publications in 2010-2014 registered in the Web of Science; document type: article, review or proceedings paper; large collaborations outputs are also included.

**Large collaborations outputs:** publications in 2010-2014 with more than 30 authors registered in the Web of Science; document type: article, review or proceedings paper.

**Quality Profile:** number of evaluated outputs vs quality groups (5 groups); 'world-leading' quality denotes an absolute standard of quality in each field and subfield; 'world leading', 'internationally' and 'nationally' in this context refer to quality standards; they do not refer to the nature or geographical scope of particular subjects, nor to the focus of research nor its place of dissemination; for example, research which is focused on the subject specific to the Czech Republic might be of 'world leading' standard, on the contrary, work with an international focus might not be of 'world leading, internationally excellent or internationally recognized' standard.

**Quality of Outputs by Journals Ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Quality of Outputs by Number of Citations:** number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) of the list of outputs ordered by the number of citations; n. a. - the number of outputs in the field is low and/or the number of citations is not sufficient for relevant judgement; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Quality of Outputs by Citation Sources:** fraction of citations of all outputs in the top quartile (TOP25) or the top half (TOP50) of list of journals ordered by AIS; fraction of "not cited" outputs is added; orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Field Structure of Outputs:** number of outputs of the team in different fields; if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of Outputs by Journals Ranking) is taken; the table shows up to 30 fields.

**Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2010–2014**  
**RESULTS OF THE PHASE I. AND BIBLIOMETRIC PARAMETERS**

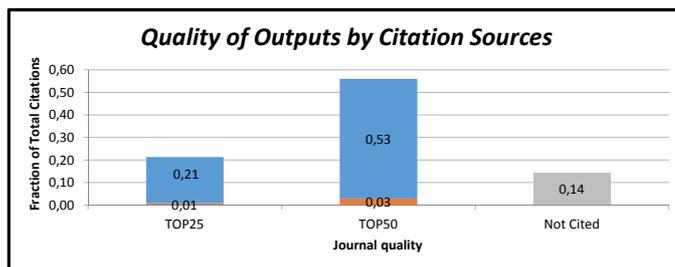
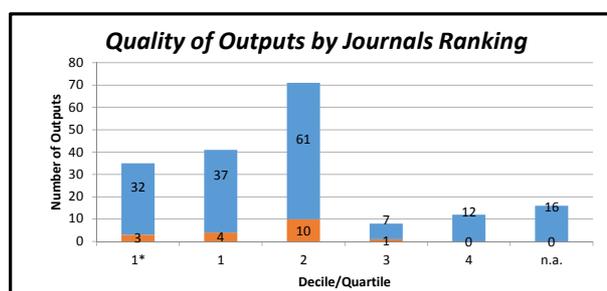
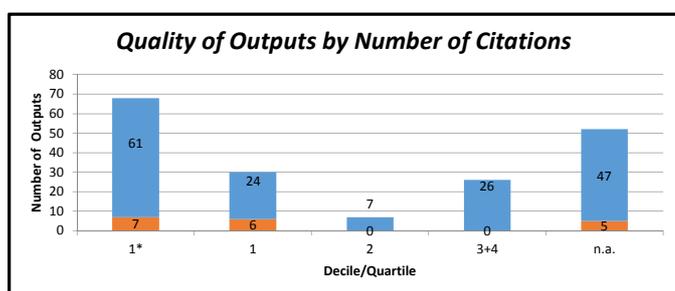
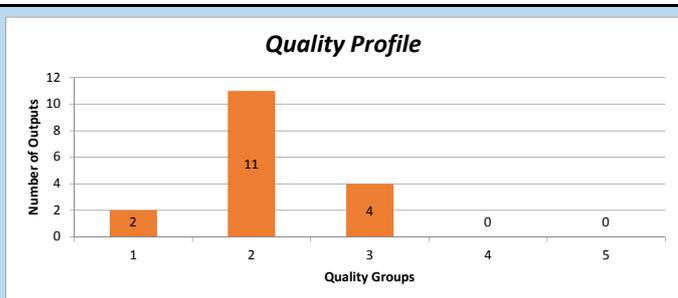
**Institute:** Nuclear Physics Institute of the CAS, v. v. i.  
**Team:** Relativistic Heavy Ions, Neutrino Properties  
**Head:** Kugler Andrej  
**Total number of outputs :** 197    **Evaluated outputs :** 18 (1)    **Outputs for bibliometry :** 183    **Large collaborations outputs:** 134

**Quality Groups of Outputs (Results of the Phase I.)**

Quality	1	2	3	4	5
Outputs	2	11	4	0	0

**Quality Groups:**

- (1): Quality that is **world-leading** in terms of originality, significance and rigour.
- (2): Quality that is **internationally excellent** in terms of originality, significance and rigour but which falls short of the highest standards of excellence.
- (3): Quality that is **recognized internationally** in terms of originality, significance and rigour.
- (4): Quality that is **recognized nationally** in terms of originality, significance and rigour.
- (5): Quality that falls **below the standard** of nationally recognized work. Or work which does not meet the published definition of research for the purposes of this assessment.



Field Structure of Outputs	Outputs
PHYSICS, MULTIDISCIPLINARY	67
PHYSICS, NUCLEAR	63
PHYSICS, PARTICLES & FIELDS	19
INSTRUMENTS & INSTRUMENTATION	14
ASTRONOMY & ASTROPHYSICS	8
NUCLEAR SCIENCE & TECHNOLOGY	3
ENGINEERING, MULTIDISCIPLINARY	2
ENVIRONMENTAL SCIENCES	1
MULTIDISCIPLINARY SCIENCES	1
ENERGY & FUELS	1
PHYSICS, APPLIED	1
OPTICS	1
SPECTROSCOPY	1
PHYSICS, ATOMIC, MOLECULAR & CHEMICAL	1

**Total number of outputs:** selected types of outputs published in 2010-2014 and registered in the institutional research information system: journal article, monograph, monograph chapter, proceedings paper, patent, utility model, industrial design, prototype, functional specimen, norms and directives, specialized map, realized certified methodology, software, pilot plant, verified technology, plant breed/variety.

**Evaluated outputs:** outputs submitted by the team and evaluated in the Phase I (value in the brackets shows number of outputs submitted by the team but not evaluated in the Phase I).

**Outputs for bibliometry:** publications in 2010-2014 registered in the Web of Science; document type: article, review or proceedings paper; large collaborations outputs are also included.

**Large collaborations outputs:** publications in 2010-2014 with more than 30 authors registered in the Web of Science; document type: article, review or proceedings paper.

**Quality Profile:** number of evaluated outputs vs quality groups (5 groups); 'world-leading' quality denotes an absolute standard of quality in each field and subfield; 'world leading', 'internationally' and 'nationally' in this context refer to quality standards; they do not refer to the nature or geographical scope of particular subjects, nor to the focus of research nor its place of dissemination; for example, research which is focused on the subject specific to the Czech Republic might be of 'world leading' standard, on the contrary, work with an international focus might not be of 'world leading, internationally excellent or internationally recognized' standard.

**Quality of Outputs by Journals Ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Quality of Outputs by Number of Citations:** number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) of the list of outputs ordered by the number of citations; n. a. - the number of outputs in the field is low and/or the number of citations is not sufficient for relevant judgement; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Quality of Outputs by Citation Sources:** fraction of citations of all outputs in the top quartile (TOP25) or the top half (TOP50) of list of journals ordered by AIS; fraction of "not cited" outputs is added; orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Field Structure of Outputs:** number of outputs of the team in different fields; if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of Outputs by Journals Ranking) is taken; the table shows up to 30 fields.

**Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2010–2014**  
**RESULTS OF THE PHASE I. AND BIBLIOMETRIC PARAMETERS**

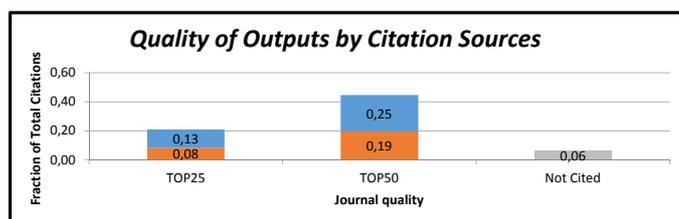
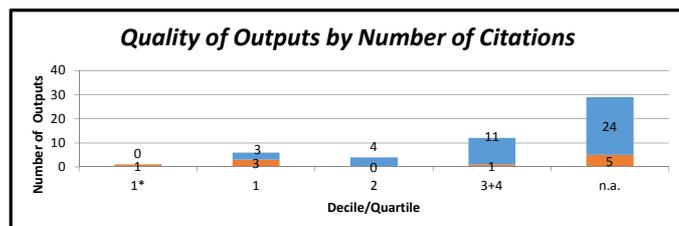
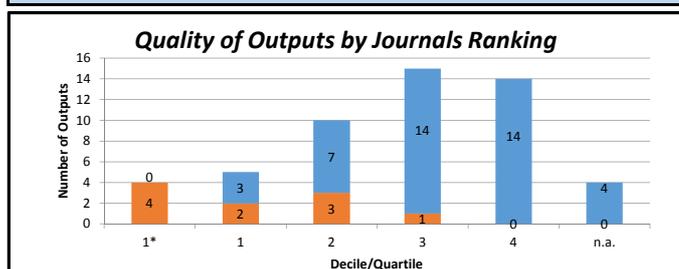
**Institute:** Nuclear Physics Institute of the CAS, v. v. i.  
**Team:** Neutron Activation Analysis  
**Head:** Kučera Jan  
**Total number of outputs :** 92      **Evaluated outputs :** 10 (0)      **Outputs for bibliometry :** 52      **Large collaborations outputs:** 0

**Quality Groups of Outputs (Results of the Phase I.)**

Quality	1	2	3	4	5
Outputs	2	4	3	1	0

**Quality Groups:**

- (1): Quality that is **world-leading** in terms of originality, significance and rigour.
- (2): Quality that is **internationally excellent** in terms of originality, significance and rigour but which falls short of the highest standards of excellence.
- (3): Quality that is **recognized internationally** in terms of originality, significance and rigour.
- (4): Quality that is **recognized nationally** in terms of originality, significance and rigour.
- (5): Quality that falls **below the standard** of nationally recognized work. Or work which does not meet the published definition of research for the purposes of this assessment.



**Field Structure of Outputs**

Field Structure of Outputs	Outputs
CHEMISTRY, INORGANIC & NUCLEAR	12
CHEMISTRY, ANALYTICAL	8
NUCLEAR SCIENCE & TECHNOLOGY	5
GEOCHEMISTRY & GEOPHYSICS	5
ECOLOGY	3
CHEMISTRY, MULTIDISCIPLINARY	2
ENVIRONMENTAL SCIENCES	2
BIOCHEMISTRY & MOLECULAR BIOLOGY	2
MINING & MINERAL PROCESSING	1
PLANT SCIENCES	1
MYCOLOGY	1
GEOSCIENCES, MULTIDISCIPLINARY	1
MEDICINE, LEGAL	1
SOIL SCIENCE	1
MULTIDISCIPLINARY SCIENCES	1
ENGINEERING, PETROLEUM	1
FOOD SCIENCE & TECHNOLOGY	1
ENGINEERING, CIVIL	1
ENGINEERING, ENVIRONMENTAL	1
CHEMISTRY, PHYSICAL	1
BIO TECHNOLOGY & APPLIED MICROBIOLOGY	1

**Total number of outputs:** selected types of outputs published in 2010-2014 and registered in the institutional research information system: journal article, monograph, monograph chapter, proceedings paper, patent, utility model, industrial design, prototype, functional specimen, norms and directives, specialized map, realized certified methodology, software, pilot plant, verified technology, plant breed/variety.

**Evaluated outputs:** outputs submitted by the team and evaluated in the Phase I (value in the brackets shows number of outputs submitted by the team but not evaluated in the Phase I).

**Outputs for bibliometry:** publications in 2010-2014 with less than 30 authors registered in the Web of Science; document type: article, review or proceedings paper.

**Large collaborations outputs:** publications in 2010-2014 with more than 30 authors registered in the Web of Science; document type: article, review or proceedings paper.

**Quality Profile:** number of evaluated outputs vs quality groups (5 groups); ‘world-leading’ quality denotes an absolute standard of quality in each field and subfield; ‘world leading’, ‘internationally’ and ‘nationally’ in this context refer to quality standards; they do not refer to the nature or geographical scope of particular subjects, nor to the focus of research nor its place of dissemination; for example, research which is focused on the subject specific to the Czech Republic might be of ‘world leading’ standard, on the contrary, work with an international focus might not be of ‘world leading, internationally excellent or internationally recognized’ standard.

**Quality of Outputs by Journals Ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Quality of Outputs by Number of Citations:** number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) of the list of outputs ordered by the number of citations; n. a. - the number of outputs in the field is low and/or the number of citations is not sufficient for relevant judgement; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Quality of Outputs by Citation Sources:** fraction of citations of all outputs in the top quartile (TOP25) or the top half (TOP50) of list of journals ordered by AIS; fraction of “not cited” outputs is added; orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Field Structure of Outputs:** number of outputs of the team in different fields; if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of Outputs by Journals Ranking) is taken; the table shows up to 30 fields.

**Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2010–2014**  
**RESULTS OF THE PHASE I. AND BIBLIOMETRIC PARAMETERS**

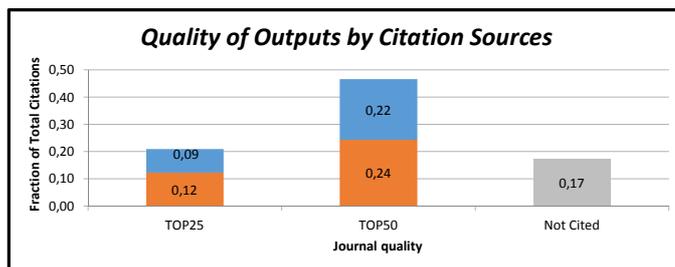
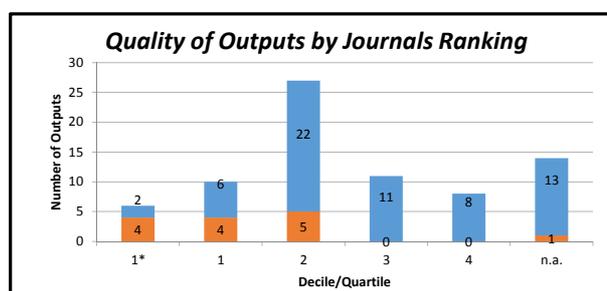
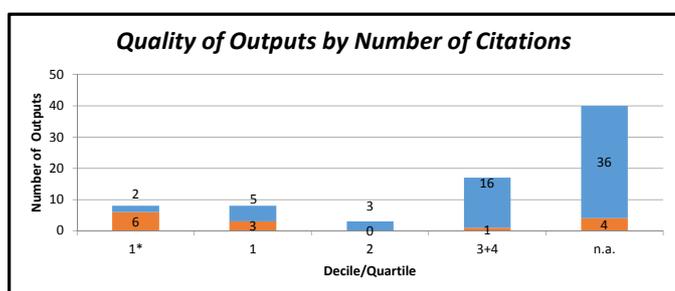
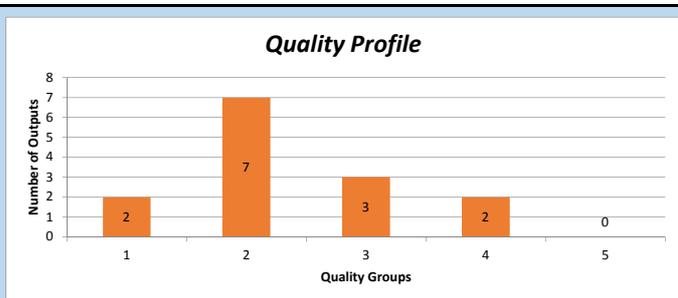
**Institute:** Nuclear Physics Institute of the CAS, v. v. i.  
**Team:** Nuclear Reactions  
**Head:** Mrázek Jaromír  
**Total number of outputs :** 94      **Evaluated outputs :** 14 (0)      **Outputs for bibliometry :** 76      **Large collaborations outputs:** 16

**Quality Groups of Outputs (Results of the Phase I.)**

Quality	1	2	3	4	5
Outputs	2	7	3	2	0

**Quality Groups:**

- (1): Quality that is **world-leading** in terms of originality, significance and rigour.
- (2): Quality that is **internationally excellent** in terms of originality, significance and rigour but which falls short of the highest standards of excellence.
- (3): Quality that is **recognized internationally** in terms of originality, significance and rigour.
- (4): Quality that is **recognized nationally** in terms of originality, significance and rigour.
- (5): Quality that falls **below the standard** of nationally recognized work. Or work which does not meet the published definition of research for the purposes of this assessment.



Field Structure of Outputs	Outputs
PHYSICS, NUCLEAR	35
PHYSICS, MULTIDISCIPLINARY	22
ASTRONOMY & ASTROPHYSICS	6
NUCLEAR SCIENCE & TECHNOLOGY	4
PHYSICS, APPLIED	3
INSTRUMENTS & INSTRUMENTATION	2
CHEMISTRY, PHYSICAL	2
SPECTROSCOPY	1
ENERGY & FUELS	1

**Total number of outputs:** selected types of outputs published in 2010-2014 and registered in the institutional research information system: journal article, monograph, monograph chapter, proceedings paper, patent, utility model, industrial design, prototype, functional specimen, norms and directives, specialized map, realized certified methodology, software, pilot plant, verified technology, plant breed/variety.

**Evaluated outputs:** outputs submitted by the team and evaluated in the Phase I (value in the brackets shows number of outputs submitted by the team but not evaluated in the Phase I).

**Outputs for bibliometry:** publications in 2010-2014 registered in the Web of Science; document type: article, review or proceedings paper; large collaborations outputs are also included.

**Large collaborations outputs:** publications in 2010-2014 with more than 30 authors registered in the Web of Science; document type: article, review or proceedings paper.

**Quality Profile:** number of evaluated outputs vs quality groups (5 groups); 'world-leading' quality denotes an absolute standard of quality in each field and subfield; 'world leading', 'internationally' and 'nationally' in this context refer to quality standards; they do not refer to the nature or geographical scope of particular subjects, nor to the focus of research nor its place of dissemination; for example, research which is focused on the subject specific to the Czech Republic might be of 'world leading' standard, on the contrary, work with an international focus might not be of 'world leading, internationally excellent or internationally recognized' standard.

**Quality of Outputs by Journals Ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Quality of Outputs by Number of Citations:** number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) of the list of outputs ordered by the number of citations; n. a. - the number of outputs in the field is low and/or the number of citations is not sufficient for relevant judgement; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Quality of Outputs by Citation Sources:** fraction of citations of all outputs in the top quartile (TOP25) or the top half (TOP50) of list of journals ordered by AIS; fraction of "not cited" outputs is added; orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Field Structure of Outputs:** number of outputs of the team in different fields; if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of Outputs by Journals Ranking) is taken; the table shows up to 30 fields.

**Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2010–2014**  
**RESULTS OF THE PHASE I. AND BIBLIOMETRIC PARAMETERS**

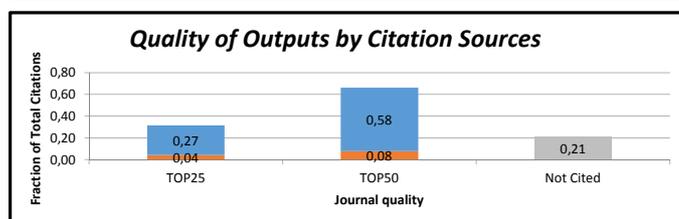
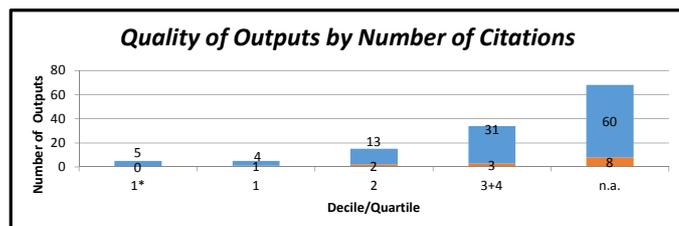
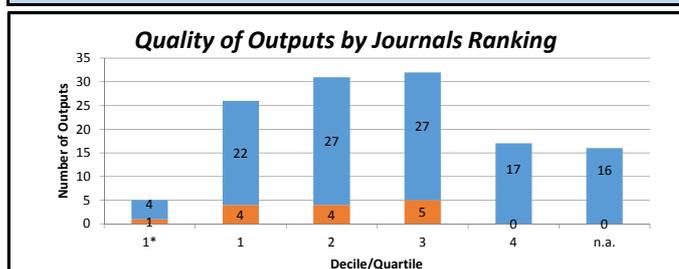
**Institute:** Nuclear Physics Institute of the CAS, v. v. i.  
**Team:** Research with Ion and Neutron Beams  
**Head:** Macková Anna  
**Total number of outputs :** 166      **Evaluated outputs :** 14 (0)      **Outputs for bibliometry :** 127      **Large collaborations outputs:** 0

**Quality Groups of Outputs (Results of the Phase I.)**

Quality	1	2	3	4	5
Outputs	0	7	5	2	0

**Quality Groups:**

- (1): Quality that is **world-leading** in terms of originality, significance and rigour.
- (2): Quality that is **internationally excellent** in terms of originality, significance and rigour but which falls short of the highest standards of excellence.
- (3): Quality that is **recognized internationally** in terms of originality, significance and rigour.
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- (5): Quality that falls **below the standard** of nationally recognized work. Or work which does not meet the published definition of research for the purposes of this assessment.



**Field Structure of Outputs**

Field Structure of Outputs	Outputs
MATERIALS SCIENCE, MULTIDISCIPLINARY	24
NUCLEAR SCIENCE & TECHNOLOGY	24
MATERIALS SCIENCE, COATINGS & FILMS	17
CHEMISTRY, MULTIDISCIPLINARY	11
PHYSICS, APPLIED	8
INSTRUMENTS & INSTRUMENTATION	8
PHYSICS, CONDENSED MATTER	6
PHYSICS, NUCLEAR	5
CHEMISTRY, PHYSICAL	4
CHEMISTRY, INORGANIC & NUCLEAR	3
ENGINEERING, ELECTRICAL & ELECTRONIC	3
POLYMER SCIENCE	2
NANOSCIENCE & NANOTECHNOLOGY	2
METALLURGY & METALLURGICAL ENGINEERING	2
ENGINEERING, CHEMICAL	2
BIOLOGY	1
SPECTROSCOPY	1
ELECTROCHEMISTRY	1
MATERIALS SCIENCE, CERAMICS	1
PHYSICS, MULTIDISCIPLINARY	1
BIO TECHNOLOGY & APPLIED MICROBIOLOGY	1

**Total number of outputs:** selected types of outputs published in 2010-2014 and registered in the institutional research information system: journal article, monograph, monograph chapter, proceedings paper, patent, utility model, industrial design, prototype, functional specimen, norms and directives, specialized map, realized certified methodology, software, pilot plant, verified technology, plant breed/variety.

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**Outputs for bibliometry:** publications in 2010-2014 with less than 30 authors registered in the Web of Science; document type: article, review or proceedings paper.

**Large collaborations outputs:** publications in 2010-2014 with more than 30 authors registered in the Web of Science; document type: article, review or proceedings paper.

**Quality Profile:** number of evaluated outputs vs quality groups (5 groups); ‘world-leading’ quality denotes an absolute standard of quality in each field and subfield; ‘world leading’, ‘internationally’ and ‘nationally’ in this context refer to quality standards; they do not refer to the nature or geographical scope of particular subjects, nor to the focus of research nor its place of dissemination; for example, research which is focused on the subject specific to the Czech Republic might be of ‘world leading’ standard, on the contrary, work with an international focus might not be of ‘world leading, internationally excellent or internationally recognized’ standard.

**Quality of Outputs by Journals Ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

**Quality of Outputs by Number of Citations:** number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) of the list of outputs ordered by the number of citations; n. a. - the number of outputs in the field is low and/or the number of citations is not sufficient for relevant judgement; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

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**RESULTS OF THE PHASE I. AND BIBLIOMETRIC PARAMETERS**

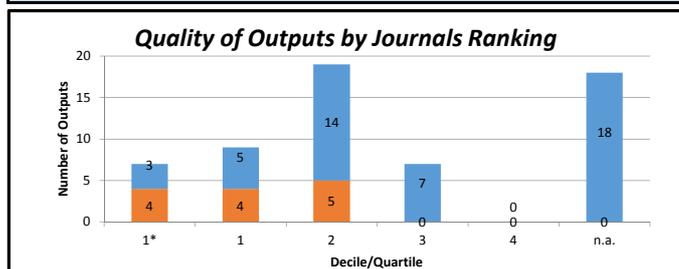
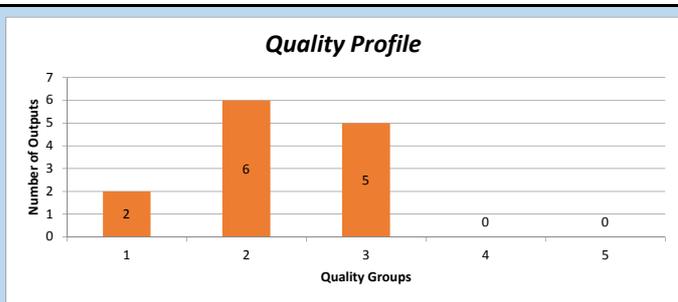
**Institute:** Nuclear Physics Institute of the CAS, v. v. i.  
**Team:** Neutron Diffraction  
**Head:** Šaroun Jan  
**Total number of outputs :** 84      **Evaluated outputs :** 13 (0)      **Outputs for bibliometry :** 60      **Large collaborations outputs:** 0

**Quality Groups of Outputs (Results of the Phase I.)**

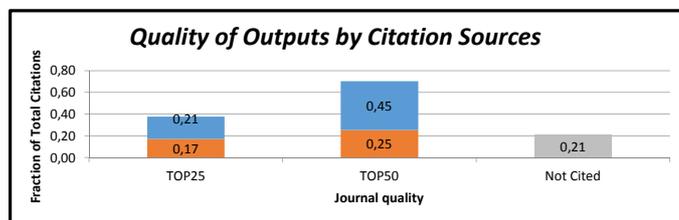
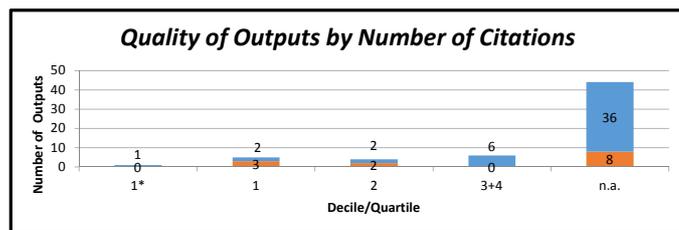
Quality	1	2	3	4	5
Outputs	2	6	5	0	0

**Quality Groups:**

- (1): Quality that is **world-leading** in terms of originality, significance and rigour.
- (2): Quality that is **internationally excellent** in terms of originality, significance and rigour but which falls short of the highest standards of excellence.
- (3): Quality that is **recognized internationally** in terms of originality, significance and rigour.
- (4): Quality that is **recognized nationally** in terms of originality, significance and rigour.
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Field Structure of Outputs	Outputs
METALLURGY & METALLURGICAL ENGINEERING	14
MATERIALS SCIENCE, MULTIDISCIPLINARY	11
CRYSTALLOGRAPHY	11
PHYSICS, CONDENSED MATTER	5
ENGINEERING, MECHANICAL	4
CHEMISTRY, INORGANIC & NUCLEAR	3
OPTICS	2
NUCLEAR SCIENCE & TECHNOLOGY	2
ENGINEERING, MULTIDISCIPLINARY	1
CONSTRUCTION & BUILDING TECHNOLOGY	1
PHYSICS, MULTIDISCIPLINARY	1
CHEMISTRY, PHYSICAL	1
ELECTROCHEMISTRY	1
MATERIALS SCIENCE, CHARACTERIZATION & TESTING	1
BIOPHYSICS	1
CHEMISTRY, MULTIDISCIPLINARY	1



**Total number of outputs:** selected types of outputs published in 2010-2014 and registered in the institutional research information system: journal article, monograph, monograph chapter, proceedings paper, patent, utility model, industrial design, prototype, functional specimen, norms and directives, specialized map, realized certified methodology, software, pilot plant, verified technology, plant breed/variety.

**Evaluated outputs:** outputs submitted by the team and evaluated in the Phase I (value in the brackets shows number of outputs submitted by the team but not evaluated in the Phase I).

**Outputs for bibliometry:** publications in 2010-2014 with less than 30 authors registered in the Web of Science; document type: article, review or proceedings paper.

**Large collaborations outputs:** publications in 2010-2014 with more than 30 authors registered in the Web of Science; document type: article, review or proceedings paper.

**Quality Profile:** number of evaluated outputs vs quality groups (5 groups); ‘world-leading’ quality denotes an absolute standard of quality in each field and subfield; ‘world leading’, ‘internationally’ and ‘nationally’ in this context refer to quality standards; they do not refer to the nature or geographical scope of particular subjects, nor to the focus of research nor its place of dissemination; for example, research which is focused on the subject specific to the Czech Republic might be of ‘world leading’ standard, on the contrary, work with an international focus might not be of ‘world leading, internationally excellent or internationally recognized’ standard.

**Quality of Outputs by Journals Ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; if the output is assigned to more than one field, the mean value of quartile is taken (values from 0,1 to 0,5 rounded down); orange: outputs submitted by the team to the Evaluation, blue: other outputs by the team.

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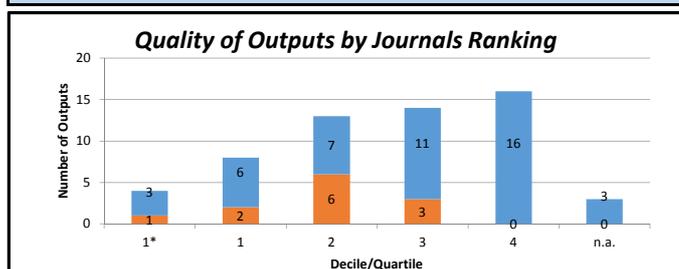
**Institute:** Nuclear Physics Institute of the CAS, v. v. i.  
**Team:** Dosimetry of Ionizing Radiation  
**Head:** Davidková Marie  
**Total number of outputs :** 106      **Evaluated outputs :** 12 (1)      **Outputs for bibliometry :** 58      **Large collaborations outputs:** 1

**Quality Groups of Outputs (Results of the Phase I.)**

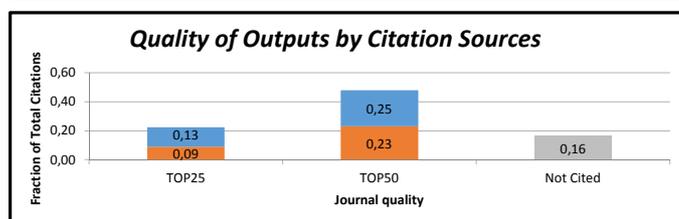
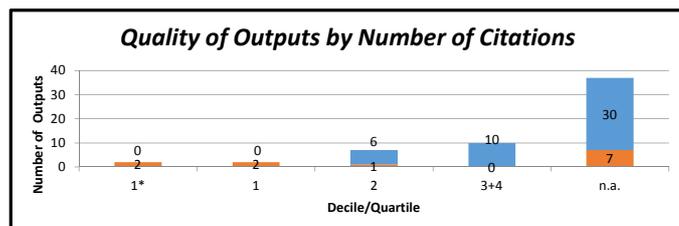
Quality	1	2	3	4	5
Outputs	2	2	4	3	0

**Quality Groups:**

- (1): Quality that is **world-leading** in terms of originality, significance and rigour.
- (2): Quality that is **internationally excellent** in terms of originality, significance and rigour but which falls short of the highest standards of excellence.
- (3): Quality that is **recognized internationally** in terms of originality, significance and rigour.
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Field Structure of Outputs	Outputs
NUCLEAR SCIENCE & TECHNOLOGY	22
CHEMISTRY, INORGANIC & NUCLEAR	6
INSTRUMENTS & INSTRUMENTATION	4
GEOCHEMISTRY & GEOPHYSICS	4
ASTRONOMY & ASTROPHYSICS	3
ARCHAEOLOGY	3
CHEMISTRY, ANALYTICAL	3
BIOTECHNOLOGY & APPLIED MICROBIOLOGY	2
BIOLOGY	2
TOXICOLOGY	1
SOIL SCIENCE	1
PHYSICS, MULTIDISCIPLINARY	1
COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS	1
SPECTROSCOPY	1
GEOLOGY	1
WATER RESOURCES	1
OPTICS	1
CHEMISTRY, PHYSICAL	1



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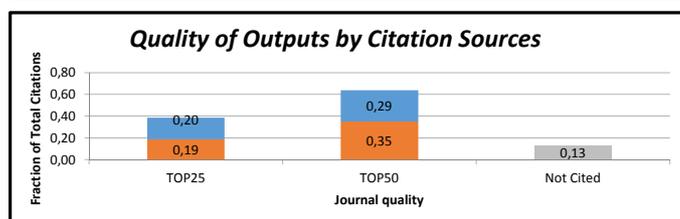
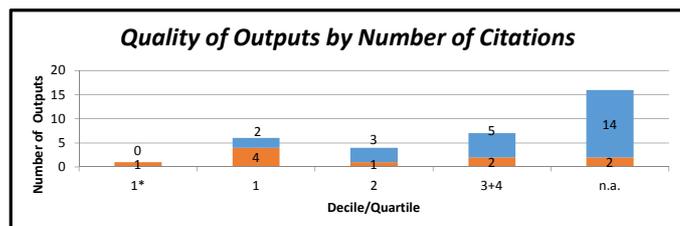
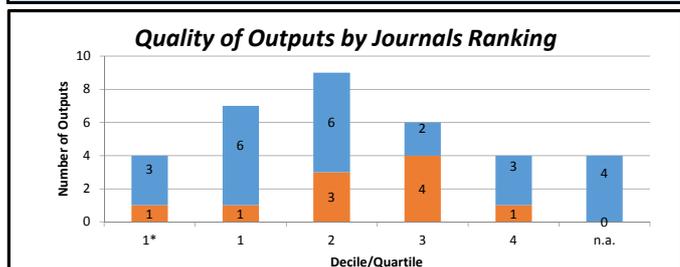
**Institute:** Nuclear Physics Institute of the CAS, v. v. i.  
**Team:** Radionuclides and Accelerators  
**Head:** Lebeda Ondřej  
**Total number of outputs :** 56      **Evaluated outputs :** 12 (0)      **Outputs for bibliometry :** 34      **Large collaborations outputs:** 0

**Quality Groups of Outputs (Results of the Phase I.)**

Quality	1	2	3	4	5
Outputs	1	5	5	1	0

**Quality Groups:**

- (1): Quality that is **world-leading** in terms of originality, significance and rigour.
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**Field Structure of Outputs**

Field Structure of Outputs	Outputs
INSTRUMENTS & INSTRUMENTATION	7
CHEMISTRY, MULTIDISCIPLINARY	5
NUCLEAR SCIENCE & TECHNOLOGY	5
RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING	3
PHYSICS, NUCLEAR	2
CHEMISTRY, ANALYTICAL	2
ENGINEERING, CHEMICAL	1
PHARMACOLOGY & PHARMACY	1
ENGINEERING, MULTIDISCIPLINARY	1
ECOLOGY	1
PHYSICS, APPLIED	1
PHYSICS, MULTIDISCIPLINARY	1
NANOSCIENCE & NANOTECHNOLOGY	1
MEDICINE, RESEARCH & EXPERIMENTAL	1
COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE	1
MATERIALS SCIENCE, MULTIDISCIPLINARY	1

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