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**A.N.NESMEYANOV INSTITUTE OF ORGANOELEMENT COMPOUNDS
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PRORRAMME

Sunday, June 26, 2016

16.00 - 20.00 Registration

18.00 - 21.00 Welcome Party

Monday, June 27, 2016

9.30 - 10.30

Opening Ceremony

Chairman - A. M. Muzafarov

Memorial Session marking the 110th anniversary of Prof. I. L. Knunyants

10.30 - 13.30

SESSION 1

Chairman - N. D. Chkanikov

10.30 O-01

S. M. Igumnov (Russia)

CURRENT SITUATION AND DEVELOPMENT PROSPECTS IN FLUORINE CHEMISTRY

10.50 PL-01

V. G. Barabanov (Russia)

STUDIES IN THE FIELD OF INDUSTRIAL FLUOROCHEMICALS CONDUCTED AT RSC "APPLIED CHEMISTRY"

11.20 O-02

B. Kokschi (Germany)

FLUORINE IN PEPTIDE AND PROTEIN ENGINEERING

11.40 - 12.00

Coffee-break

12.00 PL-02

S. Fustero (Spain)

NEW STRATEGIES FOR THE SYNTHESIS OF MONOFLUORINATED COMPOUNDS

12.30 PL-03

G. Sandford (United Kindom)

SELECTIVE DIRECT FLUORINATION STRATEGIES

13.00 PL-04

V. I. Saloutin (Russia)

THE NEW APPROACHES TO POLYFLUOROCONTAINING HETEROANNELATED AZINES

13.30 - 14.30

Lunch

14.30 – 17.40

SESSION 2

Chairman - N. Yu. Adonin

14.30 PL-05

N. Shibata (Japan)

DEVELOPMENT OF SHELF-STABLE IODONIUM REAGENTS FOR FLUORO-FUNCTIONALIZATION REACTIONS

15.00 PL-06

T. Billard (France)

FLUOROALKYLTHIOLATION REACTIONS: TOWARDS THE DEVELOPMENT OF A FAMILY OF MULTIPOTENT AND VERSATILE REAGENTS

15.30 O-03

V. E. Platonov (Russia)

FORMATION OF POLYFLUOROARENES WITH BENZOTHIOPHENE AND THIENOPYRIDINE SKELETONS IN THERMAL REACTIONS OF POLYFLUORO-*ortho*-CHLOROARENETHIOLS WITH TETRAFLUOROETHYLENE

- 15.50 **O-04** **A. I. Rakhimov** (Russia)
POLYFLUORINATION OF FUNCTIONALIC COMPOUNDS AND POLYMERS
- 16.10 - 16.30** *Coffee-break*
- 16.30 **PL-07** **A. D. Dil'man** (Russia)
DIFLUOROCARBENE AS A BUILDING BLOCK
- 17.00 **O-05** **N. V. Vasilev** (Russia)
PERSPECTIVE FLUORINE-CONTAINING REAGENTS FOR
IMMUNOFLUORESCENCE ANALIYSIS
- 17.20 **O-06** **V. G. Nazarov** (Russia)
POLYMER SURFACE FLUORINATION – NEW DIRECTION OF RESEARCH
AND APPLICATION
- 17.40 – 19.00** **1th POSTER SESSION** **P-01 – P-44**

Tuesday, June 28, 2016

- 9.30 - 11.30** **СЕССИЯ 3**
Chairman - **J. Kvíčala**
- 9.30 **PL-08** **J. Rábai** (Hungary)
PRACTICE OF FLUOROUS BIPHASIC CHEMISTRY
- 10.00 **PL-09** **D. O'Hagan** (United Kindom)
FLUORINE AS A STEREOELECTRONIC TOOL IN THE DESIGN OF
PERFORMANCE ORGANIC MOLECULES
- 10.30 **PL-10** **Ya. V. Burgart** (Russia)
POLYFLUOROCONTAINING 2-(HET)ARYLHYDRAZONO-1,3-DICARBONYL
COMPOUNDS IN ORGANIC SYNTHESIS
- 11.00 **PL-11** **N. Yu. Adonin** (Russia)
FLUORINATED ORGANOBORON DERIVATIVES: NEW APPROACHES TO
SYNTHESIS
- 11.30 – 12.00** *Coffee-break*

11th REGULAR GERMAN-RUSSIAN-UKRAINIAN SYMPOSIUM ON FLUORINE CHEMISTRY

- 12.00 - 12.10** **Opening Ceremony** Chairman – **S. N. Osipov**
M. Krispin, Coordinator of German House of Research and Innovation (DWIH)
Presentation of DWIH activities
- 12.10 – 13.30** **SESSION 4** Chairman – **S. N. Osipov**
- 12.00 **O-07** **S. Riedel** (Germany)
FLUORINE-RICH FLUORIDES: NEW INSIGHTS INTO THE CHEMISTRY
OF POLYFLUORIDE ANIONS
- 12.25 **O-08** **A. S. Golubev** (Russia)
4-FLUOROALKYL-9H-PYRIMIDO[4,5-*b*]INDOLES: SYNTHESIS AND
CYTOTOXICITY
- 12.45 **O-09** **D. Lentz** (Germany)
BUCKYBOWLS MEET FLUORINE

- 13.10 **O-10** **M. Finze** (Germany)
FLUORO AND HYDRIDO CYANOBORATES
- 13.30 - 14.30 *Lunch*
- 14.30 – 16.00 **SESSION 5**
Chairman – **S. Riedel**
- 14.30 **PL-12** **V. G. Nenaidenko** (Russia)
FLUORINATED ALKENES AND ACETYLENES IN THE SYNTHESIS OF
PRACTICALLY USEFUL COMPOUNDS
- 14.50 **O-11** **U. Radius** (Germany)
NICKEL-CATALYZED DERIVATIZATION OF POLYFLUOROARENES
VIA C-F BOND CLEAVAGE
- 15.10 **O-12** **B. Hoge** (Germany)
PERFLUOROALKYL SILOXAN DERIVATIVES
- 15.30 **PL-13** **B. A. Shainyan** (Russia)
HIGHLY UNSATURATED AND HETEROCYCLIC COMPOUNDS ON THE
BASIS OF TRIFLUOROMETHANESULFONAMIDE
- 16.00 – 16.20 *Coffee-break*
- 14.30 – 18.20 **SESSION 6**
Chairman – **A.S. Golubev**
- 16.20 **O-13** **S. V. Kuznetsov** (Russia)
POLYCRYSTALLINE MATERIALS FOR PHOTONICS ON THE BASIS
OF GROUP II AND GROUP III METAL FLUORIDES
- 16.40 **O-14** **M. Hopkinson** (Germany)
VISIBLE LIGHT PHOTOREDOX ACTIVATION FOR THE PREPARATION OF
FLUORINATED COMPOUNDS
- 17.00 **O-15** **E. B. Shchegol'kov** (Russia)
SYNTHESIS OF POLYFLUOROSALICYLIC ACID DERIVATIVES AND
THEIR BIOLOGICAL ACTIVITY
- 17.20 **O-16** **N. Ignat'ev** (Germany)
CATALYSIS WITH TRIS(PENTAFLUOROETHYL)-
DIFLUOROPHOSPHORANE, (C₂F₅)₃PF₂
- 17.40 **O-17** **V. E. Boyko** (Russia)
SYNTHESIS AND STUDIES OF REACTIVITY OF SILICON-CONTAINING
ORGANOFLUORINE COMPOUNDS
- 18.00 **O-18** **Yu. G. Shermolovich** (Ukraine)
SYNTHESIS OF FLUORINE-CONTAINING 1,4-TRIAZINE-1,1-DIOXIDES
FROM 1,1-DIHYDROFLUOROALKYL SULFONES

Wednesday, June 29, 2016

9.30 – 11.30 **СЕССИЯ 7**

Chairman - **N. Shibata**

- 9.30 **PL-14** **J. Kvičala** (Czech Republic)
SYNTHESIS, APPLICATION AND RECYCLE OF TRANSITION METAL
COMPLEXES BEARING HEAVY AND MEDIUM FLUOROUS NHC LIGANDS
- 10.00 **PL-15** **T. Yamazaki** (Japan)
SYNTHETIC APPLICATION OF 1-CHLORO-1,2,2,2-TETRAFLUOROETHANE
- 10.30 **O-19** **T. V. Mezhenkova** (Russia)
GENERATION OF STABLE PERFLUOROBENZOCYCLOALKENYL CATIONS
CONTAINING AN ELECTRON-WITHDRAWING PERFLUOROISOPROPYL
GROUP IN THE CATIONIC CENTRE
- 10.50 **O-20** **V. I. Filyakova** (Russia)
LITHIUM ENOLATES OF FLUOROALKYL-CONTAINING 1,3-DICARBONYL,
1,3,5- AND 1,2,4-TRICARBONYL COMPOUNDS IN ORGANIC SYNTHESIS
- 11.10 **O-21** **D. S. Pashkevich** (Russia)
THE METHOD OF HYDROGEN FLUORIDE OBTAINING FROM AN
AQUEOUS SOLUTION OF HEXAFLUOROSILICIC ACID

11.30 – 11.50 *Coffee-break*

11.50 – 13.30 **СЕССИЯ 8**

Chairman - **V.M. Buznik**

- 11.50** **PL-16** **S. A. Khatipov** (Russia)
OUTLOOK FOR RADIATION TECHNOLOGY IN DEVELOPMENT OF NOVEL
PTFE BASED MATERIALS
- 12.20 **O-22** **N. N. Loginova** (Russia)
KEY ASPECTS OF CHEMISTRY AND TECHNOLOGY OF FLUORINATED
OLEFINS POLYMERIZATION PROCESSES
- 12.40 **O-23** **V. V. Semenov** (Russia)
PRODUCTION OF COMPOSITE MICRONEEDLES AND
SUPERHYDROPHOBIC COATINGS FROM SUSPENSION OF CARBONYL
IRON MICROPARTICLES IN FLUOROORGANIC BINDING
- 13.00 **O-24** **S. P. Krukovsky** (Russia)
POLYPERFLUOROALKYLENOXIDES. SYNTHESIS, PROPERTIES,
APPLICATIONS

13.20 – 13.30 Conference Sponsor Presentations

13.30 - 14.30 *Lunch*

14.30 – 17.10 **SESSION 9**

Chairman - **S. A. Khatipov**

- 14.30 **O-25** **A. P. Kharitonov** (Russia)
DIRECT FLUORINATION – EFFECTIVE TOOL TO ENHANCE COMMERCIAL
PROPERTIES OF POLYMER ARTICLES AND CARBON NANOMATERIALS
- 14.50 **O-26** **N. P. Prorokova** (Russia)
PREPARATION AND PROPERTIES OF A NEW BICOMPONENT FLUORINE-
CONTAINING FILAMENT

- 15.10 O-27 **V. A. Gubanov** (Russia)
VULCANIZING AGENTS FOR PERFLUORINATED RUBBERS WITH NITRILE GROUPS. CROSS-LINKING MECHANISM. PROPERTIES OF COMPOSITES
- 15.30 O-28 **E. Yu. Ladilina** (Russia)
NOVEL FLUOROORGANOSILICONE COATINGS: PREPARATION AND PROPERTIES
- 15.50 O-29 **N. V. Sadovskaya** (Russia)
PHASE INTERFACE AND STRUCTURING IN FILLED PTFE IRRADIATED ABOVE MELTING POINT
- 16.10 – 16.30 *Coffee-break*
- 16.30 O-30 **D. P. Kiryukhin** (Russia)
CREATION NEW GLASS/POLYMER COMPOSITE MATERIALS WITH USE OF TELOMERE SOLUTIONS OF TETRAFLUOROETHYLENE
- 16.50 O-31 **N. A. Belov** (Russia)
PERFLUORINATED POLYMERS FOR MEMBRANE SEPARATION OF GASES
- 17.10 18.30 **2th POSTER SESSION** P-45 – P-92

Thursday, June 30, 2016

- 9.30 – 13.30 **СЕССИЯ 10**
Chairman - **A. D. Dil'man**
- 9.30 O-32 **S. A. Khatipov** (Russia)
EFFECT OF IRRADIATION ON MOLECULAR AND SUPRAMOLECULAR STRUCTURE OF PTFE. DESTRUCTION OR CROSS-LINKING?
- 9.50 O-33 **Ya. V. Zonov** (Russia)
CARBONYLATION OF PERFLUORINATED BENZOCYCLOALKENES AND ITS ALKYL AND PHENYL DERIVATIVES IN THE CO-SbF₅ SYSTEM
- 10.10 O-34 **A. Ya. Zapevalov** (Russia)
INTERNAL AND CYCLIC PERFLUORO-OXIRANES IN THE SYNTHESIS OF FLUORINE-CONTAINING HETEROCYCLES
- 10.30 O-35 **E. I. Maevsky** (Russia)
BIOLOGICAL ACTIVITY (REACTOGENICITY) OF PERFLUOROCARBON EMULSIONS FOR BIOMEDICAL APPLICATIONS
- 10.50 O-36 **E. V. Belyaeva** (Russia)
СОЗДАНИЕ ФТОРУГЛЕРОДНОЙ ЭМУЛЬСИИ ДЛЯ ФОТОДИНАМИЧЕСКОЙ ТЕРАПИИ РАКА
- 11.20 O-37 **A. A. Markova** (Russia)
FLUOROCARBON EMULSION FOR PHOTODYNAMIC THERAPY
- 11.40 - 12.00 *Coffee-break*
- 12.00 O-38 **E. V. Malykhin** (Russia)
MOLECULAR CO-CRYSTALS OF POLYFLUOROAROMATIC AMINES AND 18-CROWN-6: STRUCTURE, PROPERTIES, AND USING IN PRACTICE
- 12.20 O-39 **A. N. Dyachenko** (Russia)
AMMONIUM FLUORIDES IN RARE ELEMENTS TECHNOLOGY

- 12.40 **O-40** **G. F. Makhaeva** (Russia)
 SELECTIVE CARBOXYLESTERASE INHIBITORS BASED ON ALKYL 2-
 ARYLHYDRAZINYLDENE-3-OXO-3-
 POLYFLUOROALKYLPROPIONATES AS PROMISING CO-DRUGS
- 13.00 **O-41** **T. V. Gryaznova** (Russia)
 THE FLUORINATION OF PYRIDINE AND ITS DERIVATIVES IN THE
 PRESENCE OF TRANSITION METALS IN HIGHER OXIDATION STATES
- 13.20 – 13.30 Conference Sponsor Presentations
- 13.30 – 14.30** *Lunch*
- 14.30 – 17.30** **СЕССИЯ 11**
 Chairman - **S. M. Igumnov**
- 14.30 **O-42** **V. V. Chapurkin** (Russia)
 PARTICULARITY PRIMARY PEROXIDE DERIVATIVE SYNTHESIS FROM
 REACTION FLUORINATED CARBONYL COMPOUNDS WITH HYDROGEN
 PEROXIDE
- 14.50 **O-43** **A. A. Tyutyunov** (Russia)
 SYNTHESIS AND PROPERTIES OF PERFLUOROALKYLSULFONYL
 BROMIDES
- 15.10 **O-44** **M. N. Khrizanforov** (Russia)
 ELECTROCATALYTIC FLUORALKYLATION OF VARIOUS CLASS
 SUBSTRATES ES. FROM CROSS-COUPLING TO C-H
 FUNCTIONALIZATION
- 15.30 **O-45** **S. A. Nalet'ko** (Russia)
 IONIC REACTIONS OF FLUORINE-CONTAINING 1,2-OXI- AND
 THIIRANES
- 15.50 **O-46** **V. P. Zelenov** (Russia)
 REACTIONS OF TRIFLUOROACETIC ACID WITH DINITROGENPENTOXIDE
- 16.10 **O-47** **L. N. Malyutin** (Russia)
 THE RESEARCH OF BERYLLIUM CONCENTRATE
 HYDROFLUORINATION PROCESS
- 16.30 – 17.30** **DISCUSSION**
CLOSING CEREMONY

PLENARY LECTURES

PL-01	STUDIES IN THE FIELD OF INDUSTRIAL FLUORO-CHEMICALS CONDUCTED AT RSC "APPLIED CHEMISTRY" V. G. Barabanov, B. N. Maximov, V. A. Matalin (St.-Petersburg, Russia)
PL-02	NEW STRATEGIES FOR THE SYNTHESIS OF MONOFLUORINATED COMPOUNDS Santos Fustero (Valencia, Spain)
PL-03	SELECTIVE DIRECT FLUORINATION STRATEGIES G. Sandford (Darhem, United Kindom)
PL-04	THE NEW APROACHES TO POLYFLUOROCONTAINING HETEROANNELATED AZINES V. I. Saloutin, M. V. Goryaeva, O. G. Khudina, A. E. Ivanova, Ya. V. Burgart, O. N. Chupakhin (Ekaterinburg, Russia)
PL-05	DEVELOPMENT OF SHELF-STABLE IODONIUM REAGENTS FOR FLUORO-FUNCTIONALIZATION REACTIONS Prof. N. Shibata (Japan)
PL-06	FLUOROALKYLTHIOLATION REACTIONS: TOWARDS THE DEVELOPMENT OF A FAMILY OF MULTIPOTENT AND VERSATILE REAGENTS Thierry Billard (France)
PL-07	DIFLUOROCARBENE AS A BUILDING BLOCK A. D. Dilman(Moscow, Russia)
PL-08	PRACTICE OF FLUOROUS BIPHASIC CHEMISTRY J.Rábai (Budapest, Hungary)
PL-09	FLUORINE AS A STEREOELECTRONIC TOOL IN THE DESIGN OF PERFORMANCE ORGANIC MOLECULES David O'Hagan (United Kindom)
PL-10	POLYFLUOROCONTAINING 2-(HET)ARYLHYDRAZONO-1,3-DICARBONYL COMPOUNDS IN ORGANIC SYNTHESIS Ya. V. Burgart, E. V. Schegolkov, O. G. Khudina, A. E. Ivanova, V. I. Saloutin (Ekaterinburg, Russia)
PL-11	FLUORINATED ORGANOBORON DERIVATIVES: NEW APPROACHES TO SYNTHESIS N. Yu. Adonin, V. V. Bardin, A. Yu. Shabalin (Novosibirsk, Russia)
PL-12	FLUORINATED ALKENES AND ACETYLENES IN THE SYNTHESIS OF PRACTICALLY USEFUL COMPOUNDS V.G. Nenaidenko (Moscow, Russia)
PL-13	HIGHLY UNSATURATED AND HETEROCYCLIC COMPOUNDS ON THE BASIS OF TRIFLUOROMETHANESULFONAMIDE B. A. Shainyan (Irkutsk, Russia)

PL-14	SYNTHESIS, APPLICATION AND RECYCLE OF TRANSITION METAL COMPLEXES BEARING HEAVY AND MEDIUM FLUOROUS NHC LIGANDS Jaroslav Kvcála (Prague, Czech Republic)
PL-15	SYNTHETIC APPLICATION OF 1-CHLORO-1,2,2,2-TETRAFLUOROETHANE Takashi Yamazaki (Tokyo, Japan)
PL-16	OUTLOOK FOR RADIATION TECHNOLOGY IN DEVELOPMENT OF NOVEL PTFE BASED MATERIALS <u>S. A. Khatipov</u> , V. M. Buznik (Moscow, Russia)

ORAL PRESENTATIONS

O-01	CURRENT SITUATION AND DEVELOPMENT PROSPECTS IN FLUORINE CHEMISTRY S. M. Igumnov (Moscow, Russia)
O-02	FLUORINE IN PEPTIDE AND PROTEIN ENGINEERING B. Kokschi (Berlin, Germany)
O-03	FORMATION OF POLYFLUOROARENES WITH BENZOTHIOPHENE AND THIENOPYRIDINE SKELETONS IN THERMAL REACTIONS OF POLYFLUORO-ORTHO-CHLOROARENETHIOLS WITH TETRAFLUOROETHYLENE P.V. Nikul'shin, A.M. Maksimov, <u>V.E. Platonov</u> , Yu.V. Gatilov (Novosibirsk, Russia)
O-04	POLYFLUORINATION OF FUNCTIONALIC COMPOUNDS AND POLYMERS A. Y. Rakhimov (Volgograd, Russia)
O-05	PERSPECTIVE FLUORINE-CONTAINING REAGENTS FOR IMMUNOFLUORESCENCE ANALYSIS <u>N. V. Vasilev</u> , D. E. Pugachov, O. D. Loginova, D. V. Paramonov, I. I. Bilenkaya, G. V. Zathonskiy, T. S. Kostrukova (Moscow, Russia)
O-06	POLYMER SURFACE FLUORINATION – NEW DIRECTION OF RESEARCH AND APPLICATION <u>V. G. Nazarov</u> , V. P. Stolyarov, F.A. Doronin, A.G. Evdokimov (Moscow, Russia)
O-07	FLUORINE-RICH FLUORIDES: NEW INSIGHTS INTO THE CHEMISTRY OF POLYFLUORIDE ANIONS S. Riedel (Berlin, Germany)
O-08	4-FLUOROALKYL-9H-PYRIMIDO[4,5-<i>b</i>]INDOLES: SYNTHESIS AND CYTOTOXICITY <u>A. S. Golubev</u> , A. A. Markova, O. A. Mityushina, A. F. Shidlovskii, K. Yu. Suponitsky, A. A. Shtil, N. D. Chkanikov (Moscow, Russia)
O-09	BUCKYBOWLS MEET FLUORINE Dieter Lentz (Berlin, Germany)
O-10	HOMOLEPTIC CYANOBORATES, FLUORO AND HYDRIDO CYANOBORATES Johannes Landmann, Jan A. P. Sprenger, Christoph Kerpen, Lisa A. Bischoff, Michael Drisch, Katharina Duda, Eduard Bernhardt, Helge Willner, Nikolai Ignat'ev, <u>Maik Finze</u> (Würzburg, Germany)

O-11	NICKEL-CATALYZED DERIVATIZATION OF POLYFLUOROARENES VIA C-F BOND CLEAVAGE Udo Radius (Würzburg, Germany)
O-12	PERFLUOROALKYL SILOXAN DERIVATIVES Berthold Hoge (Bielefeld, Germany)
O-13	POLYCRYSTALLINE MATERIALS FOR PHOTONICS ON THE BASIS OF GROUP II AND GROUP III METAL FLUORIDES <u>S. V. Kuznetsov</u> , P. P. Fedorov, E. A. Garibin, V. V. Osiko (Moscow, Russia)
O-14	VISIBLE LIGHT PHOTOREDOX ACTIVATION FOR THE PREPARATION OF FLUORINATED COMPOUNDS M. Hopkinson (Berlin, Germany)
O-15	SYNTHESIS OF POLYFLUOROSALICYLIC ACID DERIVATIVES AND THEIR BIOLOGICAL ACTIVITY <u>E. V. Shehegol'kov</u> , I. V. Shchur, Ya. V. Burgart, V. I. Saloutin, S. Yu. Solodnikov, A. N. Trefilova, V. V. Maslova, G. A. Lyushina, O. P. Krasnykh, O. N. Chupakhin (Ekaterinburg, Russia)
O-16	CATALYSIS WITH TRIS(PENTAFLUOROETHYL)-DIFLUOROPHOSPHORANE, (C₂F₅)₃PF₂ <u>N. Ignat'ev</u> , B. Bittner, K. Koppe, W. Frank, F. Schlüter, E. Bernhardt, H. Willner (Darmstadt, Germany)
O-17	SYNTHESIS AND STUDIES OF REACTIVITY OF SILICON-CONTAINING ORGANOFLUORINE COMPOUNDS <u>V. E. Boyko</u> , A. A. Tyutyunov, S. M. Igumnov (Moscow, Russia)
O-18	SYNTHESIS OF FLUORINE-CONTAINING 1,4-TRIAZINE-1,1-DIOXIDES FROM 1,1-DIHYDROPOLYFLUOROALKYL SULFONES V. M. Ogurok, Yu. G. Shermolovich, S. A. Siry (Kyiv, Ukraina)
O-19	GENERATION OF STABLE PERFLUOROBENZOCYCLOALKENYL CATIONS CONTAINING AN ELECTRON-WITHDRAWING PERFLUOROISOPROPYL GROUP IN THE CATIONIC CENTRE <u>T. V. Mezhenkova</u> , V. M. Karpov, I. V. Beregovaya, Ya. V. Zonov, I. P. Chuikov, V. E. Platonov (Novosibirsk, Russia)
O-20	LITHIUM ENOLATES OF FLUOROALKYL-CONTAINING 1,3-DICARBONYL, 1,3,5- AND 1,2,4-TRICARBONYL COMPOUNDS IN ORGANIC SYNTHESIS <u>V. I. Filyakova</u> , D. L. Chizhov, N. S., Boltachova, D. V. Belyaev, D. S. Yachevskii, M. G. Pervova, P. A. Slepukhin, V. N. Charushin (Ekaterinburg, Russia)
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