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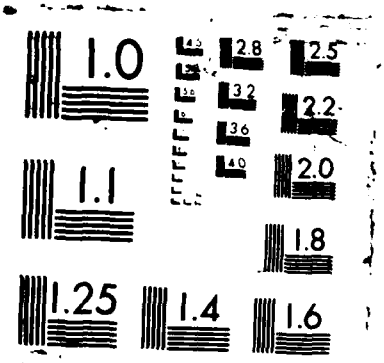
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20. ABSTRACT

This is the Soviet Laser Bibliography for September-October 1986, and is No. 85 in a continuing series on Soviet laser developments. The coverage includes basic research on solid state, liquid, gas, and chemical lasers; components; nonlinear optics; spectroscopy of laser materials; ultrashort pulse generation; crystal growing; theoretical aspects of advanced lasers; and general laser theory. Laser applications are listed under biological effects; communications systems; beam propagation; adaptive optics; computer technology; holography; laser-induced chemical reactions; measurement of laser parameters; laser measurement applications; laser-excited optical effects; laser spectroscopy; beam-target interaction; and plasma generation and diagnostics.

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INTRODUCTION

This bibliography has been compiled under an interagency agreement as a continuing effort to document current Soviet-bloc developments in the quantum electronics field. The period covered is September-October 1986, and includes all significant laser-related articles received by us in that interval. The bulk of the entries come from the approximately 30 periodicals which are known to publish the most significant findings in Soviet laser technology. Citations from the Soviet Reference Journals (journals of abstracts) are also included. Laser items from the popular or semipopular press are generally omitted. All sources cited with no parenthetical notation are available at the Library of Congress. A parenthetical entry indicates the secondary source in which the citation was found as a bibliographic entry or abstract, but for which the original source is not currently available at the Library.

Since our computer is not now able to print between lines, superscripts and subscripts are indicated by (sup) and (sub).

We are producing the entire bibliography on computer. To make our bibliography compatible with other data bases, for source abbreviations, we use the letter codens generally used in our own government rather than transliterations of abbreviations used in the Soviet Union. Likewise, we use letter codens to designate affiliations. The authors' affiliations are indicated in parentheses after the authors' names in the text. Empty parentheses indicate that the affiliation was not given. A source abbreviations list, authors' affiliations list, and author index are included in the back of the bibliography.

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d. GaAs

e. CdS

f. ZnSe

g. Pb(1-x)Sn(x)Te

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f. Cyanine

g. Xanthene

h. POPOP

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C. GAS LASERS

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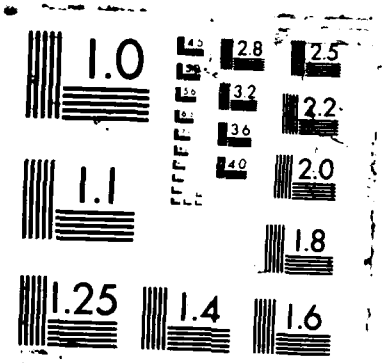
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IV. SOURCE ABBREVIATIONS

(Note: CTC = cover-to-cover translation available)

AKZHA	Akusticheskiy zhurnal (CTC)
AVMEB	Avtometriya (CTC)
BWATA	Biuletyn Wojskowej akademii technicznej imeni Jaroslawa Dabrowskiego
CNTKPEEM	Nauchno-tekhnicheskaya konferentsiya: Problemy ekonomicheskikh energeticheskikh material'nykh i trudovykh resursov
CRABA	Bolgarskaya akademiya nauk. Doklady (formerly: Bulgarska akademiya na naukite. Doklady)
CRKMUFOB	Respublikanskaya konferentsiya molodykh uchenykh po fizike, posvyashchennoy 40-letiyu osvobozhdeniya Belorusii ot nemetsko-fashistskikh zakhvatchikov
CRNPSGPN	Respublikanskiy nauchno-prakticheskiy seminar: Golografiya v promyshlennosti i nauchnykh issledovaniyakh
CRSSIDGV	Rabocheye soveshchaniye po sozdaniyu izluchatelya i detektora gravitatsionnykh voln
CRTED	Crystal Research and Technology (East Berlin) (formerly Krystal und Technik)
CSEVYaMS	Seminar: Elektromagnitnyye vzaimodeystviya yader pri malykh i srednykh energiyakh
CVKAVTFG	Vsesoyuznaya konferentsiya: Aktual'nyye voprosy teplofiziki i fizichekoy gidrodinamiki
CVKFONDP	Vsesoyuznaya konferentsiya: Fizicheskiye osnovy nadezhnosti i degradatsii poluprovodnikovykh priborov
CVKPLNKh	Vsesoyuznaya konferentsiya: Primeneniye lazerov v narodnom khozyaystve
CVSSElek	Vsesoyuznyy simpozium po sil'notochnoy elektronike

DANAA	Akademiya nauk Armyanskoy SSR. Doklady
DANKA	Akademiya nauk SSSR. Doklady (CTC)
DAZRA	Akademiya nauk Azerbaydzhanskoy SSR. Doklady
DBLRA	Akademiya nauk BSSR. Doklady
DEFKA	Defektoskopiya (CTC)
DUKAB	Akademiya nauk Ukrayns'koy RSR. Dopovidi. Seriya A. Fiziko-matematychni ta tekhnichni nauki
ELKCA	Elektrotechnicky casopis
EOBMA	Elektronnaya obrabotka materialov (CTC)
ETFMB	Akademiya nauk Estonskoy SSR. Izvestiya. Fizika, matematika
FIPLD	Fizika plazmy (Moskva, AN SSSR) (CTC)
FKOMA	Fizika i khimiya obrabotki materialov
FNMKA	Finomechanika, mikrotechnika (Budapest)
FTPPA	Fizika i tekhnika poluprovodnikov (CTC)
FTVTA	Fizika tverdogo tela (CTC)
GEAEA	Geomagnetizm i aeronomiya (CTC)
GTPZA	Gigiyena truda i professional'nyye zabolevaniya
GZKGA	Geodeziya i kartografiya (CTC)
IAAFA	Akademiya nauk Armyanskoy SSR. Izvestiya. Fizika
IANFA	Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya (CTC)
IFAOA	Akademiya nauk SSSR. Izvestiya. Fizika atmosfery i okeana (CTC)
INFZA	Inzhenerno-fizicheskiy zhurnal (CTC)
IVNMA	Akademiya nauk SSSR. Izvestiya. Neorganicheskiye materialy (CTC)

IVUBA	Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye (CTC)
IVUFA	Izvestiya vysshikh uchebnykh zavedeniy. Fizika (CTC)
IVUZB	Izvestiya vysshikh uchebnykh zavedeniy. Radioelektronika
IVYRA	Izvestiya vysshikh uchebnykh zavedeniy. Radiofizika (CTC)
IZFMB	Akademiya nauk Moldavskoy SSR. Izvestiya. Seriya fiziko-tekhnicheskikh i matematicheskikh nauk
IZSTA	Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya tekhnicheskikh nauk.
IZTEA	Izmeritel'naya tekhnika (CTC)
JMKOA	Jemna mechanika a optika
KHFID	Khimicheskaya fizika (CTC)
KHVKA	Khimiya vysokikh energiy (CTC)
KRISA	Kristallografiya (CTC)
KRSFA	Kratkiye soobshcheniya po fizike (CTC)
KVEKA	Kvantovaya elektronika (journal, Moskva) (CTC)
LFSBA	Litovskiy fizicheskiy sbornik (CTC)
MKMAD	Mekhanika kompozitnykh materialov (Riga)
MTRLB	Metrologiya
NACHA	Nachrichtentechnik-Elektronik (GDR)
OKNOA	Okeanologiya (CTC)
OPMPA	Optiko-mekhanicheskaya promyshlennost' (CTC)
OPSPA	Optika i spektroskopiya (CTC)
OTIZD	Otkrytiya, izobreteniya (formerly included in OIPOB)

PFKMD	Poverkhnost'. Fizika, khimiya, mekhanika (Moskva)
PRSUB	Pribory i sistemy upravleniya (CTC)
PRTEA	Pribory i tekhnika eksperimenta (CTC)
PSSAB	Physica status solidi (A). Applied Research (GDR)
PSSBB	Physica status solidi (B). Basic Research (GDR)
PTGEA	Problemy teorii gravitatsii i elementarnykh chastits (sbornik, Moskva)
PZTFD	Zhurnal tekhnicheskoy fiziki. Pis'ma (CTC)
RAELA	Radiotekhnika i elektronika (journal, Moskva) (CTC)
RATEA	Radiotekhnika (journal, Moskva) (CTC)
RRPQA	Revue Roumaine de Physique
RTKHA	Radiotekhnika (sbornik, Khar'kov)
RZETA	Rozprawy elektrotechniczne
RZFZA	Referativnyy zhurnal. Fizika
RZGFA	Referativnyy zhurnal. Geofizika
RZRAB	Referativnyy zhurnal. Radiotekhnika
SCEFA	Studii si cercetari de fizica
SOMEA	Sovetskaya meditsina
TVOOB	Tekhnika i vooruzheniye (CTC)
TVYTA	Teplofizika vysokikh temperatur (CTC)
UFIZA	Ukrainskiy fizicheskiy zhurnal (Russian language version) (CTC)
UFNAA	Uspekhi fizicheskikh nauk (CTC)
VANSA	Akademiya nauk SSSR. Vestnik (CTC)
VBSFA	Akademiya nauk Belorusskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk

VEOFA	Vestnik oftal'mologii
VMEZA	Voyenno-meditsinskiy zhurnal (CTC)
VMUFA	Moskovskiy universitet. Vestnik. fizika, astronomiya (CTC)
VMUKA	Moskovskiy universitet. Vestnik. Khimiya (CTC)
VYPMA	Vychislitel'naya i prikladnaya matematika (sbornik, Kiyev)
VYSBA	Vysokomolekulyarnyye soyedineniya. Seriya B. Kratkiye soobshcheniya
WZHMA	Wissenschaftliche Zeitschrift der Humboldt Universitaet zu Berlin. Mathematisch-naturwissenschaftliche Reihe (East Berlin)
ZETFA	Zhurnal eksperimental'noy i teoreticheskoy fiziki (CTC)
ZFPRA	Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma (CTC)
ZNPFA	Zhurnal nauchnoy i prikladnoy fotografii i kinematografii (CTC)
ZPMFA	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki (CTC)
ZPSBA	Zhurnal prikladnoy spektroskopii (CTC)
ZRBEA	Zarubezhnaya radioelektronika
ZTEFA	Zhurnal tekhnicheskoy fiziki (CTC)
ZVDLA	Zavodskaya laboratoriya (CTC)
ZVMFA	Zhurnal vychislitel'noy matematiki i matematicheskoy fiziki (CTC)

V. AUTHOR AFFILIATIONS

AKIN
Akusticheskiy institut AN SSSR
Acoustics Institute, Academy of Sciences USSR

AlGU
Altayskiy gos universitet
Altai State University, Barnaul

API
Altayskiy politekhnicheskiy institut
Altay Polytechnical Institute, Barnaul

BGU
Belorusskiy gos universitet
Belorussian State University

Chermetinform
TsNII informatsii i tekhniko-ekonomicheskikh issledovaniy chernoy metallurgii Ministerstva chernoy metallurgii SSSR, Moscow
Central Scientific Research Institute of Information and Technical Economic Studies on Ferrous Metallurgy, USSR Ministry of Ferrous Metallurgy, Moscow

ChGU
Chernovitskiy gosudarstvennyy universitet
Chernovitsy State University

DalPI
Dal'nevostochnyy politekhnicheskiy institut
Far East Polytechnical Institute

DBMZhD
Dorozhnaya bol'nitsa No. 1 imeni N.A. Semashko Moskovskoy zheleznoy dorogi Ministerstva putey soobshcheniya SSSR
Railroad Hospital No. 1 imeni N.A. Semashko, Moscow Railroad, USSR Ministry of Railroads

DVGU
Dal'nevostochnyy gos universitet
Far Eastern State University, Vladivostok

DzhTILPP
Dzhambul'skiy tekhnologicheskiy institut legkoy i pishchevoy promyshlennosti
Dzhambul Technological Institute of Light Industry and Food Industry

FGPI
Ferganskiy gosudarstvennyy pedagogicheskiy institut im. Ulugbeka
Fergana State Pedagogical Institute im. Ulugbeka

FIAN
Fizicheskiy institut im Lebedeva AN SSSR
Physics Institute imeni Lebedev, Academy of Sciences USSR, Moscow

FKhI
Fiziko-khimicheskiy institut AN Ukr SSR
Institute of Physical Chemistry, Academy of Sciences Ukrainian SSR

FTI
Fiziko-tekhnicheskiy institut im Ioffe AN SSSR
Physicotechnical Institute im Ioffe, Academy of Sciences USSR, Leningrad

FTIANUk
Fiziko-tekhnicheskiy institut AN UkrSSR
Physicotechnical Institute, Academy of Sciences Ukrainian SSR, Khar'kov

FTIUNTs
Fiziko-tekhnicheskiy institut Ural'skogo nauchnogo tsentra AN SSSR
Physicotechnical Institute, Ural Scientific Center, Academy of Sciences USSR, Izhevsk

GEOKhI
Institut geokhimii i analiticheskoy khimii im Vernadskogo AN SSSR
Institute of Geochemistry and Analytical Chemistry imeni Vernadskiy, Academy of Sciences USSR, Moscow

GGU
Gor'kovskiy gos universitet
Gor'kiy State University

GIFTI
Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut pri Gor'kovskom gos universite
Gor'kiy Physicotechnical Research Institute at Gor'kiy State University

GiprougleavtDO
Donetskoye otdeleniye Gosudarstvennogo proyektno-konstruktorskogo i NII po avtomatizatsii ugol'noy promyshlennosti
Donetsk Branch of the State Planning and Design and Scientific Research Institute of Automation of the Coal Industry

GOI
Gosudarstvennyy opticheskiy institut im Vavilova
State Optical Institute imeni Vavilov, Leningrad

GrodGU
Grodnenskiy gos universitet
Grodno State University

GruzNIINTI
Gruzinskiy NII nauchno-tekhnicheskoy informatsii i tekhniko-ekonomicheskikh issledovaniy Goskomiteta Soveta Ministrov GSSR po nauke i tekhnike
Georgian Scientific Research Institute of Scientific and Technical Information and of Technical Economic Studies for the State Committee on Science and Technology of the Council of Ministers of the Georgian SSR, Tbilisi

IAE
Institut atomnoy energii im Kurchatova
Institute of Atomic Energy imeni Kurchatov, Moscow

IAESOAN
Institut avtomatiki i elektrometrii SOAN
Institute of Automation and Electronic Measurements, Siberian Branch Academy of Sciences USSR

IEANUz
Institut elektroniki AN UzSSR
Institute of Electronics, Academy of Sciences Uzbek SSR, Tashkent

IFA
Institut fiziki atmosfery AN SSSR
Institute of Atmospheric Physics, Academy of Sciences, USSR

IFANAz
Institut fiziki AN AzSSR
Institute of Physics, Academy of Sciences Azerbaydzhan SSR

IFANB
Institut fiziki AN BSSR
Institute of Physics, Academy of Sciences Belorussian SSR, Minsk

IFANG
Institut fiziki AN GruzSSR
Institut of Physics, Academy of Sciences Georgian SSR, Tbilisi

IFANLa
Institut fiziki AN LatSSR
Institut of Physics, Academy of Sciences Latvian SSR, Salaspils

IFANUk
Institut fiziki AN UkrSSR
Institute of Physics, Academy of Sciences Ukrainian SSR, Kiev

IFI
Institut fizicheskikh issledovaniy AN ArmSSR
Institute of Physics Research, Academy of Sciences Armenian SSR

IFPSOAN
Institut fiziki poluprovodnikov SOAN
Institute of Semiconductor Physics, Siberian Branch Academy of Sciences USSR, Novosibirsk

IFSOAN
Institut fiziki SOAN
Institute of Physics, Siberian Branch Academy of Sciences USSR, Krasnoyarsk

IFTT
Institut fiziki tverdogo tela AN SSSR
Institute of Solid State Physics, Academy of Sciences USSR, Chernogolovka

IFVE
Institut fiziki vysokikh energiy
Institute of High Energy Physics, Serpukhov

IGTPZ
Leningradskiy NII gigiyeny truda i profzabolevaniy
Leningrad Scientific Research Institute of Occupational Health and Occupational Diseases

IKAN
Institut kristallografii AN SSSR
Institute of Crystallography, Academy of Sciences USSR, Moscow

IKGr
Institut kibernetiki AN GruzSSR
Institute of Cybernetics, Academy of Sciences Georgian SSR

IKhF
Institut khimicheskoy fiziki AN SSSR
Institute of Physics of Chemistry, Academy of Sciences USSR, Chernogolovka

IMET
Institut metallurgii im Baykova
Institute of Metallurgy imeni Baykov, Moscow

INBYuM
Institut biologii yuzhnykh morey AN UkrSSR
Institute of the Biology of the Southern Seas, Academy of Sciences Ukrainian SSR, Sevastopol'

INEOS
Institut elementoorganicheskikh soyedineniy AN SSSR
Institute of Organoelemental Compounds, Academy of Sciences USSR, Moscow

IOA
Institut optiki atmosfery SOAN
Institute of Atmospheric Optics, Siberian Branch Academy of Sciences USSR

IOAN
Institut okeanologii AN SSSR
Institute of Oceanography, Academy of Sciences USSR, Moscow

IOF
Institut obshchey fiziki AN SSSR
Institute of General Physics, Academy of Sciences USSR, Moscow

IOKhK
Institut organicheskoy khimii AN UkrSSR
Institute of Organic Chemistry, Academy of Sciences Ukrainian SSR, Kiev

IONKhANB
Institut obshchey i neorganicheskoy khimii AN BSSR
Institute of General and Inorganic Chemistry, Academy of Sciences Belorussian SSR

IPANUk
Institut poluprovodnikov AN UkrSSR
Institute of Semiconductors, Academy of Sciences Ukrainian SSR, Kiev

IPF
Institut prikladnoy fiziki AN SSSR
Institute of Applied Physics, Academy of Sciences USSR, Gor'kiy

IPFANM
Institut prikladnoy fiziki AN MSSR
Institute of Applied Physics, Academy of Sciences Moldavian SSR, Kishinev

IPM
Institut prikladnoy matematiki AN SSSR
Institute of Applied Mathematics, Academy of Sciences USSR

IPMe
Institut problem mekhaniki AN SSSR
Institute of Problems of Mechanics, Academy of Sciences USSR, Moscow

IPP
Institut problemy prochnosti AN UkrSSR
Institute for Problems of Strength of Materials, Academy of Sciences Ukrainian SSR, Kiev

IRE
Institut radiotekhniki i elektroniki AN SSSR
Institute of Radioengineering and Electronics, Academy of Sciences USSR, Moscow

IRFEANUk
Institut radiofiziki i elektroniki AN UkrSSR
Institute of Radiophysics and Electronics, Academy of Sciences Ukrainian SSR

IRGSZh
Institut razvedeniya i genetiki sel'skokhozyaystvennykh zhivotnykh
Institute of Breeding and Genetics of Farm Animals, Leningrad

ISAN
Institut spektroskopii AN SSSR
Institute of Spectroscopy, Academy of Sciences USSR

ISE
Institut sil'notochnoy elektroniki SOAN
Institute of High-Current Electronics, Siberian Branch Academy of Sciences USSR, Tomsk

ISM
Institut sverkhtverdykh materialov AN UkrSSR
Institute of Superhard Materials, Academy of Sciences Ukrainian SSR, Kiev

ITF
Institut teplofiziki SOAN
Institute of Thermophysics, Siberian Branch Academy of Sciences USSR, Novosibirsk

ITFL
Institut teoreticheskoy fiziki im Landau AN SSSR
Institute of Theoretical Physics imeni Landau, Academy of Sciences USSR, Chernogolovka

ITMO
Institut teplo- i massoobmena AN BSSR
Institute of Heat and Mass Exchange, Academy of Sciences Belorussian SSR

ITPM
Institut teoreticheskoy i prikladnoy mekhaniki SOAN
Institute of Theoretical and Applied Mechanics, Siberian Branch Academy of Sciences USSR, Novosibirsk

IVTAN
Institut vysokikh temperatur AN SSSR
Institute of High Temperatures, Academy of Sciences USSR

IYaFSOAN
Institut yadernoy fiziki SOAN
Institute of Nuclear Physics, Siberian Branch Academy of Sciences USSR, Novosibirsk

IzhGMI
Izhevskiy gos meditsinskiy institut
Izhevsk State Medical Institute
(city renamed Ivanov Dec 84, original name Izhevsk restored Jun 87)

KAI
Kazanskiy aviatsionnyy institut
Kazan' Aviation Institute

KGU
Kiyevskiy gos universitet
Kiev State University

KhGU
Khar'kovskiy gos universitet
Khar'kov State University

KhIIZhTDF
Donetskiy filial Khar'kovskogo instituta inzhenerov zheleznodorozhnogo transporta
Donetsk Branch of the Khar'kov Institute of Railroad Transport Engineers

KiGU
Kishinveskiy gos universitet
Kishinev State University

KIYaI
Institut yadernykh issledovaniy AN UkrSSR
Institute of Nuclear Research, Academy of Sciences Ukrainian SSR, Kiev

KNIKIPO
Kiyevskiy NI i konstruktorskiy institut periferiynogo oborudovaniya
Kiev Scientific Research and Design Institut of Peripheral Equipment

KPI
Kishinevskiy politekhnicheskiy institut
Kishinev Polytechnic Institute

LatGU
Latviyskiy gos universitet
Latvian State University

LETI
Leningradskiy elektrotekhnicheskiy institut
Leningrad Electric Engineering Institute

LGU
Leningradskiy gos universitet
Leningrad State University

LIAP
Leningradskiy institut aviatsionnogo priborostroyeniya
Leningrad Institute of Aviation Instrument Manufacture

LITMO
Leningradskiy institut tochnoy mekhaniki i optiki
Leningrad Institute of Precision Mechanics and Optics

LMI
Pervyy Leningradskiy meditsinskiy institut im I.P. Pavlova
First Leningrad Medical Institute imeni I.P. Pavlov

LPI
Leningradskiy politekhnicheskiy institut
Leningrad Polytechnic Institute

LSGMI
Leningradskiy sanitarno-gigiyenicheskiy meditsinskiy institut
Leningrad Medical Institute of Public Health

LTITsBP
Leningradskiy tekhnologicheskiy institut tsellyulozno-bumazhnoy promyshlennosti
Leningrad Technological Institute of the Wood-Pulp and Paper Industry

LvGU
L'vovskiy gos universitet
L'vov State University

LvPI
L'vovskiy politekhnicheskiy institut
L'vov Polytechnic Institute

MEI
Moskovskiy energeticheskiy institut
Moscow Power Engineering Institute

MEISF
Smolenskiy filial Moskovskogo energeticheskogo instituta
Smolensk Branch of the Moscow Power Engineering Institute

MFTI
Moskovskiy fiziko-tekhnicheskiy institut
Moscow Physicotechnical Institute

MGDKBol
Moskovskaya gorodskaya detskaya klinicheskaya bol'nitsa
Moscow Municipal Children's Clinical Hospital

MGMIVt
Vtoroy Moskovskiy gos meditsinskiy institut im Pirogova
Second Moscow State Medical Institute imeni Pirogov

MGU
Moskovskiy gos universitet
Moscow State University

MIFI
Moskovskiy inzhenerno-fizicheskiy institut
Moscow Engineering Physics Institute

MIIGAiK
Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii
Moscow Institute of Engineers of Geodesy, Aerial Photography and Cartography

MIREA
Moskovskiy institut radiotekhniki, elektroniki i avtomatiki
Moscow Institute of Radio Engineering, Electronics and Automation

MISIS
Moskovskiy institut stali i splavov
Moscow Institute of Steel and Alloys

MITKhT
Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova
Moscow Institute of Fine Chemical Technology imeni Lomonosov

MNII
Moskovskiy NII glaznykh bolezney im Gel'mgol'tsa
Moscow Scientific Research Institute of Eye Diseases imeni Gel'mgol'ts

MoldNIINTI
Moldavskiy NII nauchno-tekhnicheskoy informatsii i tekhniko-ekonomicheskikh issledovaniy Gosplana MSSR
Moldavian Scientific Research Institute of Scientific and Technical Information and of Technical Economic Studies for the State Plan of the Moldavian SSR, Kishinev

NGU
Novosibirskiy gos universitet
Novosibirsk State University

NIFKhI
NI fiziko-khimicheskiy institut im Karpova
Scientific Research Institute of Physicochemistry imeni Karpov

NIIFKS
NII fiziki kondensirovannykh sred Yerevanskogo gos universiteta
Scientific Research Institute of the Physics of Condensed Media of Yerevan State University

NIIFL
NII fiziki pri Leningradskom gos universitete
Scientific Research Institute of Physics at Leningrad State University

NIIGAiK
Novosibirskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii
Novosibirsk Institute for Engineers of Geodesy, Aerial Surveying and Cartography

NIIMF
NII mekhaniki i fiziki Saratovskogo GU
Scientific Research Institute of Mechanics and Physics of Saratov State University

NIIPFI
NII prikladnoy fiziki pri Irkustskom gos universitete
Scientific Research Institute of Applied Physics at Irkutsk State University

NIIPFP
NII prikladnykh fizicheskikh problem pri Belorusskom gos universitete
Scientific Research Institute of Applied Physics Problems at Belorussian State University

NIITavtoprom
NII tekhnologii avtomobil'noy promyshlennosti, Moskva
Scientific Research Institute of the Technology of the Automobile Industry

NIIYaF
NII yadernoy fiziki pri Moskovskom gos universitete
Scientific Research Institute of Nuclear Physics at Moscow State University

NIIYaFT
NII yadernoy fiziki pri Tomskom politekhnicheskom institute
Scientific Research Institute of Nuclear Physics at Tomsk Polytechnic Institute

NIOPIK
NII organicheskikh poluproduktov i krasiteley
Scientific Research Institute of Organic Intermediates and Dyes, Moscow

NITsTLAN
NI tsentr po tekhnologicheskim lazeram AN SSSR
Scientific Research Center for Industrial Lasers, Academy of Sciences USSR

NSKNO
Nauchnyy sovet AN SSSR po probleme "Kogerentnaya i nelineynaya optika"
Scientific Council on Coherent and Nonlinear Optics, Academy of Sciences USSR

OGU
Odesskiy gos universitet
Odessa State University

OIYaI
Ob"yedinennyy institut yadernykh issledovaniy
Joint Institute of Nuclear Research, Dubna

RGU
Rostovskiy-na-Donu gos universitet
Rostov on Don State University

RISI
Rostovskiy-na-Donu inzhenerno-stroitel'nyy institut
Rostov-on-Don Civil Engineering Institut

RTI
Radiotekhnicheskiy institut AN SSSR
Radioengineering Institute, Academy of Sciences USSR, Moscow

SFTI
Sibirskiy fiziko-tekhnicheskiy institut im Kuznetsova
Siberian Physicotechnical Institute imeni Kuznetsov, Tomsk

SGU
Saratovskiy gos universitet
Saratov State University

SKBMvP
Spetsial'noye konstruktorskoye byuro mikroelektroniki v priborostroyenii
Special Design Bureau for Microelectronics in Instrument Manufacture, L'vov

SZPI
Severo-zapadnyy zaochnyy politekhnicheskiy institut
Northwestern Correspondence Polytechnic Institute, Leningrad

TashGU
Tashkentskiy gos universitet
Tashkent State University

TIASUR
Tomskiy institut avtomatizatsii sistem upravleniya i radioelektroniki
Tomsk Institute for Automation of Control Systems and Radioelectronics

ToGPI
Tomskiy gos pedagogicheskiy institut
Tomsk State Pedagogical Institute

ToPI
Tomskiy politekhnicheskiy institut
Tomsk Polytechnic Institute

TPI
  Tallinskiy politekhnicheskiy institut
  Tallinn Polytechnic Institute
TsNIIE
  Tsentral'nyy NII "Elektronika"
  "Elektronika" Central Scientific Research Institute, Moscow
UFNIIGB
  Ufimskiy NII glaznykh bolezney
  Ufa Scientific Research Institute of Eye Diseases
UkrNIINTI
  Ukrainskiy NII nauchno-tekhnicheskoy informatsii i tekhniko-ekonomicheskikh issledovaniy Gosplana UkrSSR
  Ukrainian Scientific Research Institute of Scientific and Technical Information and of Technical Economic Studies for the State Plan of the Ukrainian SSR, Kiev
UzhGU
  Uzhgorodskiy gos universitet
  Uzhgorod State University
VilGU
  Vil'nyusskiy gos universitet
  Vilnius State University
VINITI
  Vsesoyuznyy institut nauchnoy i tekhnicheskoy informatsii
  All-Union Institute of Scientific and Technical Information, Moscow
VISI
  Voronezhskiy inzhenerno-stroitel'nyy institut
  Voronezh Engineering Institute
VLTI
  Voronezhskiy lesotekhnicheskiy institut
  Voronezh Forestry Institute
VNIFTRI
  VNII fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy
  All-Union Scientific Research Institute of Physico-technical and Radiotechnical Measurements, Moscow
VNIIGBol
  VNII glaznykh bolezney
  All-Union Scientific Research Institute of Eye Diseases, Moscow
VNIIM
  VNII metrologii im Mendeleyeva
  All-Union Scientific Research Institute of Metrology imeni Mendeleyev, Leningrad

VNIIMono
  VNII monokristallov, stsintillyatsionnykh materialov i osobo chistykh khimicheskikh veshchestv
  All-Union Scientific Research Institute of Single Crystals, Scintillation Materials and Extra Pure Chemical Substances, Khar'kov
VNIIOFI
  VNII optiko-fizicheskikh izmereniy
  All-Union Scientific Research Institute of Optophysical Measurements, Moscow
VNIIZhT
  VNII zheleznodorozhnogo transporta
  All-Union Scientific Research Institute of Railroad Transportation, Moscow
VNITsISPiV
  VNI tsentr po izucheniyu svoystv poverkhnosti i vakuuma
  All-Union Scientific Research Center for Studying the Properties of Surfaces and Vacuums, Moscow
VTsSOAN
  Vychislitel'nyy tsentr SOAN
  Computer Center, Siberian Branch Academy of Sciences USSR
YeGU
  Yerevanskiy gos universitet
  Yerevan State University

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