L 14694-63 EWT(1)/BDS/EEC(b)-2 AFFTC/ASD/ESD-3/RADC/SSD Pi-4 GG/
IJP(C)/WG
ACCESSION NR: AP3005279 S/0056/63/045/002/0279/0284

AUTHOR: Konstantinov, O. V.; Perel', V. I. 68

TITLE: Coherence of states in the scattering of modulated light

SOURCE: Zhur. eksper. i teoret. fiz., v.45, no. 2, 1963, 279-284

TOPIC TAGS: coherent scattering, coherent state, scattering atom, modulated light, intensity-modulated light, modulation depth, excited state

ABSTRACT: A theory is proposed to explain the scattering of intensity-modulated light for the case when the scattering atom has closely spaced excited states. This theory accounts for the experimental observations of resonance increase in the modulation depth of scattered light when the modulation frequency coincides with Zeeman splitting of the excited term (Ye. B. Aleksandrov. Optika i spektroskopiya, 14, 436, 1963). "The authors express their gratitude to Ye. B. Aleksandrov and V. P. Kozlov for a stimulating discussion." Orig. art. has: 21 formulas and 1 figure.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute, Academy of Sciences SSSR)

SUBMITTED: 31 Jan 63 DATE ACQ: 06 Sep 63 ENCL: 00
SUB CODE: PH NO REF SOV: 003 OTHER: 001
Card 1/1

L 17797-63 EWT(1)/BDS AFFTC/ASD/IJP(C)/SSD GG

ACCESSION NR: AP3007069 S/0056/63/045/003/0503/0510

AUTHOR: Aleksandrov, Ye. B.; Konstantinov, O. V.; Perel', V. I.; Khodovoy, V. A.

TITLE: Modulation of scattered light with the aid of parametric resonance

SOURCE: Zh. eksper. i teoret. fiziki, v. 45, no. 3, 1963, 503-510

TOPIC TAGS: parametric resonance, scattered light modulation, cadmium vapor, cadmium excited state, scattered light intensity modulation, rf cadmium lamp, cadmium luminescence, interference between excited states

ABSTRACT: A theoretical and experimental study of the resonance scattering of light by cadmium vapor in a weak magnetic field has been carried out. The effect examined is caused by the interference of two excited states, occurring during modulation of the energy interval between them. Linearly polarized light from an rf cadmium lamp excited the resonance luminescence of Cd vapor at 200C in a Wood-type horn-shaped vessel. Luminescence with a wavelength of

Card 1/2

L 17797-63
ACCESSION NR: AP3007069

3261Å was detected by a photomultiplier. The rf magnetic field (1030 kc) was established by a solenoid surrounding the vessel, with additional modulation produced by a 30-cps high-voltage signal which was used as the base voltage for the synchronous detector. The constant magnetic field was imposed by a system of Helmholtz rings. This field was slowly varied to obtain the resonance curve. The excited state of the Cd vapor was split into a Zeeman triplet, and the intensity of scattered light was modulated by the frequency of the rf field and integral multiples of that frequency. The extent of modulation and the mean intensity of luminescence showed resonant maxima when the difference of the frequencies of σ-components was an integral multiple of the rf modulation frequency. A possible combination of the effects of resonance scattering of modulated light and parametric resonance was indicated. When the modulation frequencies of the field and the light do not coincide, the intensity of scattered light will contain combination harmonics. Orig. art. has: 5 figures and 22 formulas.

ASSOCIATION: Opticheskiy institut im. S. I. Vavilova (Institute of Optics)

SUBMITTED: 09Apr63 DATE ACQ: 08Oct63 ENCL: 00
SUB CODE: PH NO REF SOV: 003 OTHER: 005
Card 2/2

KAGAN, Yu.M.; PEREL', V.I.

Use of probing methods in plasma research. Usp. fiz. nauk 81 no.3:409-452 N '63. (MIRA 16:12)

L 31285-65 EWT(1)/EWG(k)/T/EWA(h) Pz-6/Pab IJP(c)/SSD/AFWL/AEDC(a)/
ASD(a)-5/AS(mp)-2/ESD(gs)/ESD(t) AT
ACCESSION NR: AP4048415 S/0181/64/006/011/3364/3371

AUTHORS: Konstantinov, O. V.; Perel', V. I.

TITLE: Recombination waves in semiconductors

SOURCE: Fizika tverdogo tela, v. 6, no. 11, 1964, 3364-3371

TOPIC TAGS: recombination, carrier density, electron capture, hole capture, impurity level

ABSTRACT: It is shown that if the rates of capture of electrons and holes by deep impurities in a semiconductor are noticeably different, then the flow of direct current through the semiconductor can excite longitudinal waves (recombination waves), and that these waves are self-excited when the minority carriers are sufficiently dense or the electric field strong enough. Recombination waves are stabilized by the fact that the electron lifetimes are limited, that the carriers can diffuse, and that the neutralization of the traps

Card 1/2

L 14845-65
ACCESSION NR: AP4048415

equalizes the carrier capture rate. A detailed theory, accounting for all these factors, is developed, and the conditions under which the recombination waves are unstable are determined. "The authors thank V. I. Stafayev for numerous useful discussions." Orig. art. has: 1 figure and 27 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute, AN SSSR)

SUBMITTED: 04Jun64 ENCL: 00

SUB CODE: SS NR REF SOV: 002 OTHER: 003

Card 2/2

ACCESSION NR: AP4020921 S/0051/64/016/002/0193/0200

AUTHOR: Aleksandrov,Ye.B.; Konstantinov,O.V.; Perel', V.I.

TITLE: Conversion of the frequency of modulation of light by parametric and double resonance

SOURCE: Optika i spektroskopiya, v.16, no.2, 1964, 193-200

TOPIC TAGS: modulation frequency conversion, light modulation conversion, radiation modulation, parametric resonance, double resonance, Zeeman effect, magnetic field splitting, luminescence modulation, harmonic combination, dual modulation, light scattering, cadmium

ABSTRACT: In resonance scattering of modulated light by atoms whose excited state is a Zeeman triplet, the depth of modulation of the luminescence is resonance-dependent on the splitting magnetic field; the degree of modulation exhibits a maximum when the modulation frequency agrees with the frequency of the sigma component of the line. On the other hand, in scattering of light of constant intensity (non-modulated), one can obtain modulated luminescence by applying, in addition to the constant splitting magnetic field, an alternating field perpendicular or parallel

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ACC.RN: AP4020921

to the constant one. In the former case there obtains "double resonance"; in the latter case, "parametric resonance". Modulation frequency conversion incident to parametric and double resonance is discussed and analyzed theoretically; the discussion is based on earlier publications of the authors. It is shown that incident to application of an alternating field, in addition to the constant one, there should appear in the luminescence intensity harmonics not only with the frequencies of the incident light modulation and field modulation, but also with combination frequencies. The amplitude of the combination harmonics is resonance-dependent on the strength of the constant field. The experimental part of the study was carried out on a set-up consisting of an oscillator feeding a coil via an rf amplifier, a photomultiplier, a tuned amplifier and a detector assembly. The set-up was similar to that described earlier by the authors (ZhETF,45,503,1963). Radiation associated with the 5^3P_1--5^1S_0 transition in cadmium vapor (contained in a tube surrounded by the above-mentioned coil) was observed. The purpose of the experiments was not to obtain detailed data, but only to demonstrate the feasibility of modulation frequency conversion. A modulation amplitude versus field strength curve is reproduced. The experimental results are consistent with the predictions of theory. "In conclusion, the authors take pleasure in expressing their gratitude to A.M.Bonch-Bruyevich for his interest in the work and valuable advice." Orig.art.has: 51 formulas

Card 2/3

L 14827-65 EWA(k)/EWT(l)/EEC(k)-2/T/EEC(b)-2/EWP(k)/EWA(m)-2 Po-4/Pf-4/Pi-4
IJP(c)/AFWL/ASD(a)-5/SSD/AFETR/ESD(gs)/ESD(t) WW/JHB
ACCESSION NR: AP4047915 S/0056/64/047/004/1483/1495

AUTHORS: D'yakonov, M. I.; Perel', V. I. B

TITLE: Coherence relaxation during diffusion of resonance radiation

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 4, 1964, 1483-1495

TOPIC TAGS: relaxation kinetics, relaxation time, resonance radiation, radiation diffusion, density matrix, polarization

ABSTRACT: Equations are derived for the time variation of the off-diagonal elements (in terms of the magnetic quantum numbers) of the density matrix of excited gas atoms in the absence of radiation diffusion. In the case when the density matrix is diagonal, these equations coincide with the known radiation diffusion equation. It is shown that in the case of complete capture of the radiation there are two relaxation times for linear and circular polarization, re-

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L 14827-65
ACCESSION NR: AP4047915

spectively, and expressions for these times are given. Approximate expressions are obtained for these relaxation times and also for the decay time of the excited state when the capture is incomplete. The calculated pressure dependence agrees with the experimental data. The case of radiation diffusion in a limited volume, for which the expressions become very complicated, is taken into account in a manner similar to that used by J. P. Barrat (J. Phys. Rad. v. 20, 657, and 633, 1959). Orig. art. has: 36 formulas and 6 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute, Academy of Sciences SSSR)

SUBMITTED: 17Apr64 ENCL: 00

SUB CODE: NP, OP NR REF SOV: 007 OTHER: 008

Card 2/2

L 45566-65 EWA(k)/FBD/EWG(r)/EWT(l)/EEC(k)-2/EEC(t)/T/EEC(b)-2/EWP(k)/EWA(m)-2/
EWA(h) Pm-4/Pn-4/Po-4/Pf-4/Pg-4/Peb/Pi-4/Pl-4 SCTB/IJP(c) WG/LHB/GG

ACCESSION NR: AP5012566 UR/0181/65/007/005/1506/1516

AUTHOR: Kazarinov, R. F.; Konstantinov, O. V.; Perel', V. I.; Efros, A. L. 72 71 B

TITLE: Electromagnetic theory of the injection laser 25

SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1506-1516

TOPIC TAGS: laser, injection laser, junction laser, semiconductor laser, stimulated emission, radiative recombination, active medium

ABSTRACT: The authors investigated the angular distribution of stimulated emission from a laser diode and calculated the quantum yield coefficient γ (defined as the ratio of emitted power to power generated in the active region by radiative recombination). Known results for the amplitudes of the field vectors in the n- and p-regions for the TE and TM modes of propagation are summarized. These formulas are then used to derive two different expressions for γ and to show that in both the TE and TM modes of propagation γ is given by the same formulas. The energy flux as a function of the angle in the plane perpendicular to the junction consists of a product of two Lorentzian curves. The width of these profiles depends on the penetration depth of the field in the n- and p-regions. If the profiles are sufficiently far apart, two maxima, corresponding to emission from the

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L 45388-65

ACCESSION NR: AP5012566

p- and n-regions, will be present in the angular distribution of the energy flux. Physically, the presence of two peaks is associated with the components of the wave vector in the p- and n-regions which are perpendicular to the plane of the junction. It is shown that the angular distance between the peaks determines the amplification in the active region. Orig. art. has: 47 formulas. [CS]

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute, AN SSSR)

SUBMITTED: 31Dec64 ENCL: 00 SUB CODE: EC

NO REF SOV: 002 OTHER: 012 ATD PRESS: 4001

Card 2/2

L 31954-65 EWT(1)

ACCESSION NR: AP5004409 S/0056/65/048/001/0345/0352

AUTHOR: D'yakonov, M. I.; Perel', V. I. 19 17 B

TITLE: Coherence relaxation of excited atoms in collisions

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 48, no. 1, 1965, 345-352

TOPIC TAGS: atomic collision, relaxation time, polarization, excited atom

ABSTRACT: This is an extension of earlier research by the authors (ZhETF, v. 47, 1483, 1964) dealing with relaxation of coherence resulting from the dragging of radiation. The present paper shows that there is an analogous situation in coherence relaxation due to collisions. The problem treated is that of the re-

(vacuum and plasma); and calculation of the relaxation times is carried through

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L 31954-65

ACCESSION NR: AP5004409

to conclusion for the case in which the total angular momentum of the excited state is unity and that of the ground state is zero. This occurs when light is scattered by vapor of even isotopes of cadmium or mercury. "We thank I. M. Band for collaboration in the numerical calculations." Orig. art. has: 30 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute, Academy of Sciences SSSR)

D'YAKONOV, M.I.; PEREL', V.I.

Relaxation of the coherence of excited atoms in collisions.
Zhur. eksp. i teor. fiz. 48 no.1:345-352 Ja '65.
(MIRA 18:4)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR.

L 00541-66 EWT(1)/T IJP(c)
ACCESSION NR: AP5019221 UR/0056/65/049/001/0097/0106

AUTHORS: Aleksandrov, Ye. B.; Konstantinov, O. V.; Perel', V. I.

TITLE: Optical orientation of atoms in a magnetic field perpendicular to the beam

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 1, 1965, 97-106

TOPIC TAGS: magnetic moment, molecular beam, beam modulation, gas laser

ABSTRACT: The authors investigate theoretically and experimentally a new method of orienting gas atoms in a magnetic field perpendicular to an orienting light beam. This is done by using an alternating magnetic field in addition to a constant one, and modulating the alternating field while maintaining the beam intensity constant. It is shown theoretically that if the alternating field makes a

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small angle with the constant field, then the resultant moment precesses about the constant field and produces large constant components of the magnetic moment in the directions of the magnetic field and of the light. The theory of the process is briefly developed and expressions are derived for the total moment and its projections. To check on the theory, experiments were made on the dc and ac components of the moment projections on the light beam and on the constant field in the vicinity of the first resonance. The experiments were made with a mixture of cesium vapor and argon, using an orienting beam which was circularly polarized and contained only one long-wave component of the resonant doublet. A cesium electrodeless discharge spherical lamp served as the source. The experiment setup is described. The test results are found to be in satisfactory agreement with the theory. Plots were obtained of the depth of modulation of light on the amplitude of the alternating field, of the dc components of the moment against the constant field, and of the resonant broadening by the alternating field. Orig. art.

L 00541-66
ACCESSION NR: AP5019221

3

has: 6 figures and 16 formulas.

ASSOCIATION: Gosudarstvennyy opticheskiy institut im. S. I. Vavilova (State Optical Institute) 14,55

SUBMITTED: 16Feb65 ENCL: 00 SUB CODE: OP

NR REF SOV: 002 OTHER: 004

mlr

Card 3/3

KAZARINOV, R.F.; KONSTANTINOV, O.V.; PEREL', V.I.; EFROS, A.L.

Electromagnetic theory of injection lasers. Fiz. tver. tela 7 no.5:1506-1516 My '65. (MIRA 18:5)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR, Leningrad.

L 21553-66 FBD/EWT(1)/EEC(k)-2/T/EWP(k)/EWA(h) IJP(c) WG
ACC NR: AP6007226 SOURCE CODE: UR/0056/66/050/002/0448/0456

AUTHOR: D'yakonov, M. I.; Perel', V. I. 46 B

ORG: Physicotechnical Institute im. A. F. Ioffe, Academy of Sciences SSSR (Fiziko-tekhnicheskiy institut Akademii nauk SSSR)

TITLE: Dependence of the radiation emission intensity of a gas laser on magnetic field strength 25,44

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 50, no. 2, 1966, 448-456

TOPIC TAGS: gas laser, laser emission, laser radiation

ABSTRACT: A simplified model used to investigate the dependence of emission intensity of a gas laser on the longitudinal and transverse magnetic fields makes it possible to interpret this phenomenon on the basis of notches in the gain-frequency characteristic. In the model, the area of these notches is proportional to the intensity of radiation emission. The intensity of radiation emission has a minimum at a zero magnetic field and a second minimum when the Zeeman splitting of the levels Ω coincides with the detuning of the resonator δ. At $\Omega \sim \delta$ a nonmonotony may appear which depends on a shift of the generation frequency by the magnetic field analogous to that which takes place with

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L 21553-66

ACC NR: AP6007226

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a weak magnetic field. This nonmonotony appears only at sufficiently large pumping. In a transverse magnetic field, in addition to the peculiarities at $\Omega = 0$ and $\Omega = \delta$, a minimum of radiation emission can also appear at $\Omega = 2\delta$, i.e., the emission intensity of radiation has a minimum when the Zeeman splitting of the levels equals a double detuning of the resonator. This last peculiarity can appear only if in the laser's emission the light of both polarizations χ_1 and χ_{-1} (χ_1, χ_{-1} are polarizations along the left and the right circle) is present. The intensity minima can be interpreted as being the result of a merging of the notches. A nonmonotonic dependence of generation frequency on the magnetic field can also occur during merging of the notches. Orig. art. has: 24 formulas and 4 figures. [JA]

SUB CODE: 20/ SUBM DATE: 02Aug65/ ORIG REF: 004/ OTH REF: 005
ATD PRESS: 4219

Card 2/2 BLG

L 25954-66 FBD/EWT(l)/EEC(k)-2/T/EWP(k)/EWA(h) IJP(c) WG

ACC NR: AP6011559 SOURCE CODE: UR/0051/66/020/003/0472/0480

75
B

AUTHOR: D'yakonov, M. I.; Perel', V. I.

ORG: none

TITLE: Contribution to the theory of a gas laser in a magnetic field

SOURCE: Optika i spektroskopiya, v. 20, no. 3, 1966, 472-480

TOPIC TAGS: gas laser, laser theory, dipole moment, light polarization, magnetic field

ABSTRACT: To explain the increase in laser radiation power in a weak longitudinal magnetic field, the nonmonotonic dependence of the beat frequency between the left- and right-polarized oscillations on the magnetic field in a laser, or the influence of the longitudinal and transverse magnetic fields on the polarization of a laser emission, the authors calculate the dipole moment induced in the gas by the field of a standing electromagnetic wave in the presence of a magnetic field. This approach, a qualitative description of which was presented by the authors earlier (ZhETF v. 50, 448, 1966), obviates the need for rigorous application of Maxwell's equations and the associated mathematical difficulties. To obtain quantitative results, the authors calculate the polarizability tensor of the gas for arbitrary moments of the upper and lower states and for arbitrary direction of the magnetic field. The dipole moment is calculated accurate to cubic terms in the electric field of the wave under the assumption that the g-factors of the working levels are equal. The results are then used

UDC: 621.375.9: 535.001.1

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L 25954-66 0

ACC NR: AP6011559

to obtain the stationary states of the electromagnetic field in the laser and to determine the stability of these states in longitudinal and transverse magnetic fields. Single-mode operation is considered, and it is assumed that in the absence of a magnetic field there is no preferred polarization direction. Stationary solutions are then obtained for the laser equation in the longitudinal and transverse magnetic fields, and the stability of the different oscillation modes is studied. Orig. art. has: 32 formulas and 1 table. [02]

SUB CODE: 20/ SUBM DATE: 27Jul65/ ORIG REF: 006/ OTH REF: 010/ ATD PRESS: 4257

Card 2/2 FD

L 41209-66 EWT(1) IJP(c) AT

ACC NR: AP6018726 SOURCE CODE: UR/0057/66/036/006/1021/1026

66
B

AUTHOR: Perel', V.I.; Pinskiy, Ya. M.

ORG: none

TITLE: On the instability of a high frequency discharge in a magnetic field

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 6, 1966,

TOPIC TAGS: plasma instability, plasma magnetic field, discharge plasma, ~~alternating electromagnetic~~ alternating electromagnetic field, CONSTANT MAGNETIC FIELD, HIGH FREQUENCY DISCHARGE

ABSTRACT: The authors discuss the possible instability of a high frequency discharge plasma in a constant magnetic field arising from the action of the average force on a charged particle tending to cause it to move away from regions of high alternating field intensity. The average force on the charged particle in an inhomogeneous alternating field is derived from the equation of motion of the particle under the influence of the Lorentz force and the damping force due to collisions with neutral atoms, by representing the position vector of the particle as a sum of slow varying and fast varying parts and appropriately averaging over the latter. That force is included, together with the diffusion terms and the forces due to charge separation, in the continuity equations for the electron and ion components of the plasma. Linearized equations for small perturbations are derived and from them there are obtained stability conditions. It is shown that the plasma is stable (with respect to the pertur-

Card 1/2 UDC: 533.9

L 41209-66

ACC NR. AP6018726

0

bations under consideration) in the absence of a constant external magnetic field provided the Langmuir frequency is high compared with both the collision frequency and the frequency of the alternating field, but that instability can arise in the presence of a magnetic field if both the Langmuir and the Larmor frequencies are high and the collision frequency is low compared with the frequency of the alternating field. The author finds it difficult to say at present whether or not the instabilities observed by S.D.Vagner, A.I.Zubov, and A.D.Khakhayed (ZhTF, 31, 336, 1961) and R.Geller (Phys. Rev. Lett., 9, 248, 1962) were due to the mechanism discussed in the present paper. Orig. art. has: 35 formulas.

SUB CODE: 20 SUBM DATE: 06Aug65 ORIG.REF: 005 OTH REF: 003

Card 2/2 MLP

L 36307-66 EWT(1) IJP(c) AT

ACC NR: AP6015416 SOURCE CODE: UR/0051/66/020/005/0745/0749

AUTHOR: Perel', V. I.; Fedorov, V. L.

ORG: none

TITLE: Polarization of the 5016 Å spectral line of helium upon excitation by electron impact

SOURCE: Optika i spektroskopiya, v. 20, no. 5, 1966, 745-749

TOPIC TAGS: helium, spectral line, polarized luminescence, optic transmission, electron impact, GAS PRESSURE, ELECTRON ENERGY, LIGHT POLARIZATION.

ABSTRACT: The relationship between gas pressure and the energy of exciting electrons in the polarization of the 5016-Å and 4922-Å spectral lines of helium has been investigated. It was shown that the degree of polarization of the 5016-Å spectral line is sensitive to changes in pressure while the 4922-Å line shows no appreciable polarization sensitivity. The dependence of the 5016-Å line on the pressure is related to the capture of radiation at resonance transition $1^1S_0 - 3^1P_1$, which causes disorientation of the momentum at the initial state of emission 3^1P_1 of the 5016-Å spectral line. It is shown that the optical transmissivity of the helium 5016-Å spectral line will not produce a complete depolarization process, even if a complete radiation capture does occur at the resonance transition. Orig. art. has: 3 figures and 11 formulas. [KP]

SUB CODE: 20/ SUBM DATE: 31Dec64/ ORIG REF: 005/ OTH REF: 007

Card 1/1 dy UDC: 539.186.2

PERSHENKO, A.A., kand. tekhn. nauk; PEREL', Ya.I., inzh.; MARCHENKO, M.A., inzh.; GORYACHEVA, G.A., inzh.

Use of manganese-potassium soaps from synthetic fatty acids as a catalyst for the oxidation of paraffin. Masl.-zhir. prom. 29 no.6:17-21 Je '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut sinteticheskikh zhirozameniteley.
(Paraffins) (Catalysts)

DENISENKO, V.P.; RUDI, V.P.; PEREL', Ye.M.

Synthesis of diquaternary ammonium salts of N,N' derivatives of hexamethylenediamine. Zhur. ob. khim. 35 no.10:1743-1745 O '65. (MIRA 18:10)

1. Chernovitskiy meditsinskiy institut.

PEREL', Yu.G.

Plenum of the Committee on the History of Astronomy. Astron.zhur. 38 no.3:573-575 My-Je '61. (MIRA 14:6)
(Astronomy--History)

PEMEL', YU.

Cosmogony

Origin of the earth and planets. Znan.sila, no. 7, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, OCTOBER 1952. UNCLASSIFIED.

PEREL, YU.

USSR/Astronomy - Book Review Nov/Dec 52

"How Discoveries Are Made," Ye. Strogova, [Book review by Yu. Perel]

"Astron Zhur" Vol 29, No 6, pp 742-744

Ye. Strogova outlines in her book the importance of discoveries by Soviet Scientists G. A. Shayn, V. A. Ambartsumyan, A. I. Alikhanov, and A. I. Alikhanyan. Reviewer considers her pathetic worship of Soviet scientists as exaggerated and criticizes some scientific and historical distortions in the book.

239T83

PEREL', YU. G.

Astronomers

Sketches of Russian astronomers ("Leading Russian astronomers.") Nauka i zhizn' 19 no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, July 1952 Uncl.

PEREL', YU.G.

Inkokhodtsev, Petr Borisovich 1742-1806

Petr Borisovich Inkokhodtsev - Russian scientist and the first Russian historian of astronomy. Astron. zhur,29, no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress October 1952, Unclassified.

PEREL', Yu. G.

Astronomers

Matvey Matveyevich Gusev. Astron. zhur. 29, no. 4, 1952

Monthly List of Russian Accessions, Library of Congress, November, 1952, Unclassified

1. PEREL' Yu G.

2. USSR (600)

4. Bibliography - Astronomy

7. Annotated index to astronomical literature published in the U.S.S.R. during August and September 1952. Astron. zhur. 29 no.6, 1952

9, Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified

PEREL', Yu.G.

Bibliography of literature on geophysics published in 1952. Izv. AN SSSR. Ser.geofiz. no.3:277-284 My-Je '53. (MLRA 6:6)
(Bibliography--Geophysics) (Geophysics--Bibliography)

PEREL', Yu. G. Jul/Aug 53

USSR/Geophysics - Bibliography

"Index to Literature on Geophysics Published in Feb/Mar 1953," Yu. G. Perel'

Iz Ak Nauk SSSR, Ser Geofiz, No 4, pp 391-392

Lists 7 books and symposiums of articles; 9 articles from works and publications of various sci-res administrations; and 10 articles from scientific periodical publications.

265 T??

PEREL', YU. G.

USSR/Astronomy - Bibliography Jan/Feb 53

"Annotated Index of Astronomical Literature Published in the USSR in October and November 1952," Yu.G. Perel'

"Astron Zhur" Vol 30, No 1, pp 118-120

Lists astronomical articles in certain journals. For example: B. Ye. Markaryan, "Revised List of Stellar O-Type Associations," Dok Ak Nauk Armyanskoy SSR, Vol 15, No 1, 1952, pp 11-15; D. A. Rozhkovskiy "Origin of Stars and Luminous Diffuse Nebulae," Vest Ak Nauk Kazakhskoy SSR, No 7, 1952, pp 39-47, 1952. Gives titles of 4 dissertations; works of observatories; books etc.

246T50

PEKEL', Yu. G.

Fedorov, Vasilii Fedorovich, 1802-1855.

Russian astronomer - explorer, Vasilii Fedorovich Fedorov (1802-1855). Astron. zhur. 30, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

PEREL', Yu. G.

Gamaleya, Platon Iakovlevich, 1766-1817

Forgotten work on the history of astronomy ("Brief history of astronomy." Platon Ya. Gamaleya. Reviewed by Yu. G. Perel'). Astron. zhur. 30, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

1. PEREL', Yu. G.

2. USSR (600)

4. Astronomy - Bibliography

7. Annotated idex of astronomical literature published in the U.S.S.R. in December 1952. Astron. zhur. 30, No. 2, 1953.

9. **Monthly List of Russian Accessions, Library of Congress,** April **1953. Unclassified.**

1. PERMIL', Yu. G.

2. USSR (600)

4. Perevoshchikov, Dmitri Matveevich, 1788-1880.

7. Social and literary activity of D. M. Perevoshchikov. Astron. zhur. 30 No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

PEREL', Yu.G.

Annotated index of astronomical literature published in the U.S.S.R. in January and February 1953. Astron.zhur. 30 no.3:374-376 My-Je '53. (MLRA 6:5)

(Astronomy--Bibliography) (Bibliography--Astronomy)

PEREL', Y U. G. Jul/Aug 53

USSR/Astronomy - Bibliography

"Index to Astronomical Literature Published in the USSR During March, April 1953," Yu. G. Perel'

Astr Zhur, Vol 30, No 4, pp 475-478

Lists 60 articles on astronomy which appeared during Mar, Apr 53 in 15 books and symposia, 1 ephemeris, 6 institute organs (e.g., "Trudy"), 17 periodicals, and 5 abstracts of dissertations. For example, one author's abstract of a dissertation, the only one mentioned for the degree of Dr Phys-Math Sci, is: "An Attempt to Construct a Fundamental Catalogue of Electrical Chromatic Equivalents of Stars of the Spectral Types B8 and B9," by V. B. Nikonov, Main Astron Observatory of Acad Sci USSR (expts were completed at Abastuman Astrophys Observatory and Crimean Astrophys Observatory) Leningrad, 21 pp, 100 copies. 262T32

PEREL', Yu.G.

From the history of Russian astronomical journalism. Astron.zhur. 30 no.5: 557-562 S-O '53. (MIRA 6:11)
(Astronomy--Periodicals)

PEREL', YU. G. Sep/Oct 53

USSR/Astronomy - Bibliography Dissertations

"Bibliography. Index to Astronomical Literature Published in the USSR in May/June 1953," Yu. G. Perel'

Astron Zhur, Vol 30, No 5, pp 572-576

Lists 7 monographs (books, brochures, symposia), 3 ephemerides, 9 'Trudy' (Works) of institutions, 34 articles from 16 periodicals, 9 articles from 7 dailies and gazettes, 2 bibliographies, and 4 author abstracts of dissertations. These dissertations are: 1. M.P. Kazachevskiy, Cand Phys-Math Sci, "Photometric Determination of the Reflectivity of the Terrestrial Globe," Alma-Ata, 1953, 8pp, 120 copies, Acad Sci Kazakh SSR, Astrophys Inst. 2. S.G. Slyusarev, Cand Phys-Math Sci, "Wolf-Rayet Stars," Leningrad, 1953, 8pp, 100 copies, Leningrad U im Zhdanov. 3. P.N. Kholopov, Cand Phys-Math Sci, "Structure of Globular Stellar Clusters," Moscow, 1953, 8pp, 110 copies, Moscow State U, Astron Inst im Shternberg. 4. A.I. Kochetkov, Cand Tech Sci, "Development of a New System of Spherical Coordinates and Formulas for the Computation of Astronomical Observations," Moscow, 1953, 100 copies, Moscow Inst of Engineers of Geodesy, Aerial Photography, and Cartography.

Source #264T76

PEREL', Yu.G.[reviewer]; MARTYNOV, D.Ya., professor [author].

"Marian Al'bertovich Koval'skii." D.IA.Martynov. Reviewed by IU.G.Perel'. Astron.zhur. 30 no.6:673-674 N-D '53. (MLRA 6:11)
(Koval'skii, Marian Al'bertovich, 1821-1884) (Mar'ynov, D.IA.)

PEREL', Yu.G.

Index of astronomical literature published in the U.S.S.R. in July and August 1953. Astron.zhur. 30 no.6:679-684 N-D '53. (MLRA 6:11)
(Bibliography--Astronomy) (Astronomy--Bibliography)

PEREL', Yu. G. FD 355

USSR/Geophysics - Bibliography

Card 1/1

Author : Perel', Yu. G.

Title : Index of literature on geophysics published in September-December 1953

Periodical : Izv. AN SSSR, Ser. geofiz. 2, 199-201, Mar/Apr 1954

Abstract : List of books and articles from various works of institutions. For example: B. V. Gindysh, "Calculation of the harmonic constants of the half-daily tidal wave M_2 from the monthly cycle of four-period observations on sea level, "Uchenyy zapiski Vysshego arkticheskogo morskogo uchilishcha imeni Admirala Makarova (Scientific Notes of the Higher School of the Arctic Seas imeni Admiral Makarov), No 4, 1953, pp 131-133.

Institution : -

Submitted : -

PEREL', Yu. G.

AID - P-69

Subject	:	USSR/Astronomy
Card	:	1/1
Author	:	Perel', Yu. G.
Title	:	Yertov, I. D. in the Opinion of Contemporaries
Periodical	:	Astron. zhur., V. XXXI, 1, 99-101, Ja - F 1954
Abstract	:	On the article by M. I. Shakhnovich, published in "Priroda", (No. 4, 1951, pp. 71-75) entitled "The First Russian Cosmogonist I. D. Yertov", dealing with his cosmogonic theories in the early 19th Century.
Institution	:	None
Submitted	:	August 10, 1953

PEREL', Yu. G.

AID - P-239

Subject : USSR/Astronomy

Card : 1/1

Author : Perel', Yu. G.

Title : On the Astronomical Historiography of Russia

Periodical : Astron. zhur., v. 31, 2, 198-209, Mr - Ap 1954

Abstract : Of historical interest. Development of the science of astronomy from prehistorical days; its history in Russia; its achievements; its bibliography with more than 120 Russian scientists mentioned and an extensive list added. 59 Russian references, of which only six are after 1939.

Institution : None

Submitted : No date

PEREL', Yu.G.

Subject : USSR/Astronomy AID P - 380

Card 1/1 Pub. 8 - 10/12

Author : Perel', Yu. G. (Reviewer)

Periodical : Astron. zhur., v. 31, 3, 298-299, My-Je 1954

Title : Review of the book: "V. L. Chenakal. Russian Instrument Makers of the First Half of the XVIII Century"

Abstract : The Book, published in 1953 in 254 pages and 58 figures in 3000 copies, gives the history of Russian mathematical instrument making based on documented data from the Academy of Sciences and other institutions. Names of Russian workers and the results of their work are given, especially in the field of astronomical observatories and their equipment.

Institution : Not given

Submitted : No date

PEREL', Yu. G.

AID P - 434

Subject : USSR/Astronomy

Card 1/1 Pub. 8, 13/16

Author : Perel', Yu. G.

Title : Review of the Polish Book: Contribution of Polish Astronomers to World Science, by E. V. Rybka, 1953

Periodical : Astron. zhur., v. 31-4, 398-399, Jl-Ag 1954

Abstract : This is the first attempt of writing the history of Polish astronomers from Copernicus' predecessors to the present day. A detailed favorable account of this popular book is given.

Institution : None

Submitted : No date

PEREL', Yu. G.

AID P - 435

Subject : USSR/Astronomy

Card 1/1 Pub. 8, 14/16

Author : Perel', Yu. G.

Title : Chronicle. The Reopening of the Main Astronomical Observatory at Pulkovo

Periodical : Astron. zhur., v. 31-4, 400-405, Jl-Ag 1954

Abstract : The reopening of the Main Astronomical Observatory at Pulkovo took place on May 20-22, 1954. The reconstruction and refitting of the observatory with new instruments took 9 years. Special mention is made of the horizontal solar telescope, the 50 cm reflector of Maxutov, and the polar photographic telescope. Guest scientists from many countries, speeches, etc., are mentioned.

Institution : None

Date : No date

PERKL', Yu.G.

Session of the Committee on the History of Astronomy. Astron.zhur. 31 no.6:575 N-D '54. (MLRA 8:1)
(Astronomy--History)

USSR/ Astronomy--Conferences

Card 1/1 Pub. 85--8/33

Authors : Parel', Yu. G.

Title : Reopening of the Pulkovo Observatory

Periodical : Priroda 43/11, 67--72, Nov 1954

Abstract : An account is given of a convention held in Pulkovo from the 20th to the 22nd of March, 1954, marking the reopening of the restored and remodeled observatory at that place, which covers one and a half square kilometers. At the convention 17 foreign countries were represented, including delegates from the United States. Papers were read on various astronomical topics, including such as the physical nature of the stars and their origin and development. Illustrations.

Institution : .....

Submitted : .....

BURLEYNIKOV, F.D.; MOLODENSKIY, M.S., redaktor; PEREL', Yu.G., redaktor; ASTAF'YEVA, G.A., tekhnicheskiy redaktor.

[Outline of the development of an understanding of the earth] Ocherk razvitiia predstavlenii o zemle. Moskva, Izd-vo Akademii nauk SSSR, 1955. 205 p. (MLRA 8:4)
(Earth)

PEREL', Yu.G.

Vikentii Karlovich Vishnevskii. Ist.-astron.issl. no.1:133-148 '55. (MLRA 9:12)
(Vishnevskii, Vikentii Karlovich, 1781-1855)

PEREL', Yu.G.

Philosophy of V.K.TSeraskii. Ist.-astron.issl. no.1:323-334 '55.
(TSeraskii, Vitol'd Karlovich, 1849-1925) (MLRA 9:12)

OPARIN, Aleksandr Ivanovich; FRESENKOV, Vasiliy Grigor'yevich; PERMEL', Yu.G., redaktor; POLYAKOVA, T.B., tekhnicheskiy redaktor.

[Life in the universe] Zhizn' vo Vselennoi. Moskva, Izd-vo Akademii nauk SSSR, 1956. 222 p. (MLRA 9:6)
(Plurality of worlds)

VORONTSOV-VEL'YAMINOV, Boris Aleksandrovich; PEREL', Yu.G., redaktor; TUMARKINA, N.A., tekhnicheskiy redaktor

[Outline history of astronomy in Russia] Ocherki istorii astronomii v Rossii. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 371 p.
(Astronomy--History)

ZUBOV, Vasiliy Pavlovich; KUZNETSOV, B.G., otvetstvennyy redaktor; PEREL', Yu.G., redaktor izdatel'stva; ASTAF'YEVA, G.A., tekhnicheskiy redaktor

[Historiography of the natural sciences in Russia; from the 18th to the middle of the 19th century] Istoriografiia estestvennykh nauk v Rossii; XVIII v. - pervaia polovina XIX v. Moskva, Izd-vo Akademii nauk SSSR, 1956. 575 p. (MLRA 9:10)
(Science--History)

PEREL', Yu.G.

"Astronomy at Kharkov University during the past 150 years (1805-1955)." A.I. Slastenov. Reviewed by IU.G. Perel'. Astron.zhur. 33 no.2:275-277 Mr-Ap '56. (MLRA 9:8)
(Kharkov--Astronomy--Study and teaching) (Slastenov, A.I.)

PEREL', Yu.G.

"Astronomic works." A.A.Belopol'skii. Reviewed by IU.G.Perel'. Astron.zhur.33 no.3:448-449 My-Je '56. (MIRA 9:10)
(Belopol'skii, Aristarkh appolonovich, 1854-1934)(Astronomy)

PEREL', Yu.G.

Plenary session of the committee on astronomical history. Astron.zhur. 33 no.3:458-459 My-Je '56. (MIRA 9:10)
(Astronomy--History)

PEREL', YU. G.

IDLIS, Grigoriy Moiseyevich, starshiy nauchnyy sotrudnik; FESENKOV, V.G., akademik, otvetstvennyy redaktor; PEREL', Yu.G., redaktor izdatel'stva; NOVIKOVA, S.G., tekhnicheskiy redaktor

[Cosmic matter] Kosmicheskaia materiia. Moskva, Izd-vo Akademii nauk SSSR, 1957. 124 p. (MLRA 10:3)

1. Alma-Ata, Kamenskoye plato, Astrofizicheskiy institut Akademii nauk KazSSR (for Idlis)
(Cosmography)

PEREL, YU.G.

AUTHOR: Perel, Yu.G. 33-3-31/32

TITLE: Plenary session of the Commission for the History of Astronomy (Plenum komissii istorii astronomii)

PERIODICAL: "Astronomicheskiy Zhurnal" (Journal of Astronomy), 1957, Vol.34, No.3, pp. 502-503 (U.S.S.R.)

ABSTRACT: This session took place on February 6, 1957. P.G. Kulikovskiy, who is the chairman of this commission, reported on its work. The major work of Prof. Vorontsov-Velyaminov "Essays on the history of astronomy in Russia" was edited and prepared for publication during 1956.

The first number of "Historico-astronomical studies" was issued in 1956. The second volume appeared at the beginning of 1957. Further volumes are in preparation.

SUBMITTED: March 30, 1957.

AVAILABLE: Library of Congress

Card 1/1

PEREL', Yu.G.

History of the dissemination of Lambert's cosmological views in Russia. Ist.-astron. issl. no.2:353-366 '56. (MLRA 10:6)
(Lambert, Johann Heinrich, 1728-1777) (Cosmology)

3(1) SOV/33-36-2-27/27

AUTHOR: Perel', Yu.G.

TITLE: Review of a Short Story by A. Kazantsev in the Book "Visitor from the Universe". M., Geografgiz, 1958, pp 104 - 129, Edition 165 000, Rub. 4.40

PERIODICAL: Astronomicheskiy zhurnal, 1959, Vol 36, Nr 2, pp 381-384 (USSR)

ABSTRACT: The reviewer reproaches the author A. Kazantsev with the fact that in his story, declared to be popular scientific, he develops a theory which is contrary to modern scientific knowledges (Kazantsev maintains that the large meteorite fallen in 1908 in the Tungusskaya Tayga was an atomic airship navigated by inhabitants of Mars which exploded in direct neighborhood of the earth, whereby the devastation of the region is to be explained), and that he denotes the astronomers, partially mentioned by name, to be pedantic, behind the times and incompetent.
V.A. Obruchev, G.A. Tikhov, A.A. Polkanov, K.P. Florenskiy, V.G. Belinskiy and S.A. Vengerov are mentioned in the review.

SUBMITTED: February 10, 1959

Card 1/1

USCOMM-DC-61,420

PEREL', Yu.G. (Moskva) [deceased]

Pioneer of extragalactic astronomy; K. Lundmark and his exploration of the world of stars. Priroda 54 no.5:106-107 My '65. (MIRA 18:5)

PEREL', Yu.G.

Founder of astronomy. Priroda 53 no. 11:105-109 '64. (MIRA 18:1)

1. Astronomicheskiy sovet AN SSSR, Moskva.

PEREL', Yu.G. (Moskva)

Popular science literature on astronomy; survey of 1962-1964 publications. Priroda 53 no.7:119-121 '64. (MIRA 17:7)

AKHELIS, Elizabet [Achelis, Elisabeth]; BUDKEVICH, A.V. [translator]; PEREL', Yu.G. [translator]

World calendar. Priroda 52 no.3:46-48 '63. (MIRA 16:4)
(Calendar reform)

PEREL', Yu.G. (Moskva)

Outstanding explorers of the world of stars; J.Bradley, T.Mayer, N.La Caille, three astronomers of the 18th century. Priroda 52 no.4:69-72 '63. (MIRA 16:4)

(Bradley, James, 1693?-1762)
(La Caille, Nicolas Louis De, 1713-1762)
(Mayer, Tobias, 1723-1762)

PEREL', Yu.G.

Camille Flammarion's philosophy and his role in the development and dissemination of astronomical sciences. Ist.-astron.issl. no.8:285-296 '62. (MIRA 16:3)
(Flammarion, Nicolas Camille, 1842-1925)

BAZYKIN, V.V.; BRONSHTEN, V.A.; VORONTSOV-VEL'YAMINOV, B.A.; DAGAYEV, M.M.; DMITRIYEV, L.S.; IZOTOV, A.A.; KULIKOV, K.A.; KUNITSKIY, R.V.; MARTYNOV, D.Ya.; MINCHENKOV, Ye.Ya.; MOGILKO, A.D.; P[illegible]L', Yu.G.; POPOV, P.I.; REZNIKOV, L.I.; SVETLOV, B.I.; SEMAKIN, N.A.; SHISTOVSKIY, K.N.

Mikhail Evgen'evich Nabokov; obituary. Fiz. v shkole 20 no.3:110-111 My-Je '60. (MIRA 13:11)

(Nabokov, Mikhail Evgen'evich, 1887-1960)

PEREL', Yu.G.; POPOV, P.I.; MARTYNOV, D.Ya.; KUNITSKIY, R.V.; VORONTSOV-VEL'YAMINOV, B.A.; BAZYKIN, V.V.; KULIKOV, K.A.; SHISTOVSKIY, K.N.; TSVETOV, R.I.; BRONSHTEN, V.A.; DAGAYEV, M.M.; MOGILKO, A.D.; SEMAKIN, N.K.; DMITRIYEV, L.S.; IZOTOV, A.A.

Mihail Evgen'evich Nabokov; obituray. Buil.VAGO no.28:60-62 '60. (MIRA 14:6)
(Nabokov, Mikhail Evgen'evich, 1887-1960

PEREL', Yu.G.

"History of astronomy" by A.Pannekoek. Reviewed by IU.G.Perel'.
Astron.zhur. 39 no.2:372-374 Mr-Ap '62. (MIRA 15:3)
(Astronomy--History) (Pannekoek, A.)

PEREL', Yu.G.

"Astronomical dictionary" by I.Klecek. Reviewed by IU.G.Perel'.
Astron.zhur. 39 no.2:374-375 Mr-Ap '62. (MIRA 15:3)
(Astronomy--Dictionaries) (Klecek, I.)

PEREL', Yu.G.

Plenum of the Commission of the History of Astronomy. Astron.zhur. 39 no.3:564-567 My-Je '62. (MIRA 15:5)
(Astronomy--History)

PERE'L', Yuriy Grigor'yevich; KUKARKIN, B.V., prof., red.; YERPYLEV, N.P., red.; KRYUCHKOVA, V.N., tekhn. red.

[Development of our concepts about the universe]Razvitie predstavlenii o vselennoi. Izd.2. Pod red. B.V.Kukarkina. Moskva, Fizmatgiz, 1962. 391 p. (MIRA 15:10)
(Cosmogony)

PEREL', Yu.G. (Moskva)

Propaganda of astronomic knowledge. Priroda 51 no.6:120-123 Je '62. (MIRA 15:6)

(Bibliography—Astronomy)

PEREL', Yu.G.

The bicentenary of J.H. Lambert's "Cosmological letters."
Vop.ist.est. i tekh. no.11:69-75 '61. (MIRA 14:11)
(Cosmology)
(Lambert, Jahann Heinrich, 1728-1777)
(Lambert, J.H.)

PEREL', Yu.G. (Moskva)

Outstanding investigator of the solar system; on the 150th anniversary of the birth of Urbain Leverrier. Priroda 50 no.7: 91-92 Jl '61. (MIRA 14:6)
(Leverrier, Urbain Jean Joseph, 1811-1877)

PEREL', Yu.G. (Moskva)

Founder of the science of the moon; 350th anniversary of the birth of Johannes Hevelius. Priroda 50 no.6:98-99 Je '61. (MIRA 14:5)
(Hevelius, Johannes, 1611-1687)

PEREL', Yu.G. (Moskva)

"Studies in the history of astronomy in the U.S.S.R." by B.A. Vorontsov-Vel'iaminov. Reviewed by IU.G.Perel'. Priroda 50 no.5: 118-119 My '61. (MIRA 14:5)
(Astronomy) (Vorontsov-Vel'iaminov, B.A.)

PEREL', Yu.G.; RADOVSKIY, M.I.

History of scientific relations between Russian and American astronomers. Ist.-astron. issl. no. 6:212-250 '60.
(MIRA 14:2)

(Astronomy)

PEREL', Yu.G. (Moskva)

"Astronomy in the U.S.S.S.R during the past 40 years (1917-1957)." Reviewed by IU.G. Perel'. Priroda 49 no. 12:118-119 D '60. (MIRA 13:12)

(Astronomy)

PEREL', Yu.G.

Problems of the history of astronomy discussed at the conference on the history of physical and mathematical sciences of institutions of higher education. Astron.zhur. 37 no.5:942-944 S-O '60.
(MIRA 13:10)

(Astronomy--History)

PEREL', Yu.G.

Mikhail Evgen'evich Nabokov; obituary. Astron.tsir. no.210:34 Ap '60. (MIRA 13:9)

(Nabokov, Mikhail Evgen'evich, 1887-1960)

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; LAZAREVSKIY, V.S.; KAVERIN, A.A.; KUKLIN, G.V.; CHERNYKH, N.S.; DEMIDOVICH, Ye.G.; BRONSHTEN, V.A.; YAKHONTOVA, N.S. (Leningrad); PEROVA, N.B.; DOKUCHAYEVA, O.D.; KATASEV, L.A.; MASEVICH, A.G.; SHCHERBINA-SAMOYLOVA, I.S.; ARSENT'YEV, V.V.; FRANK-KAMENETSKIY, D.A.; LEYKIN, G.A.; SHCHEGLOV, P.V.; PERKL', Yu.G.; BAKULIN, P.I., otv.red.; MASEVICH, A.G., red.; PARENAGO, P.P., red.; RAKHLIN, I.Ye., red.; AKHLAMOV, S.N., tekhn.red.

[Astronomical calendar. A yearbook; variable section for 1959] Astronomicheskii kalendar'. Ezhegodnik. Peremennaia chast', 1960. Red.kollegiia P.I.Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 351 p. (Vsesoiuznoe astronomo-geodezicheskoe obshchestvo, no.63) (MIRA 13:1)

1. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (GAGO) (for Kulagin, Kovbasyuk, Lazarevskiy, Demidovich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva (MOVAGO) (for Dagayev, Bronshten, Perova).
(Astronomy--Yearbooks)

PEREL', Yu.G.

Plenum of the Commission on the History of Astronomy. Astron. zhur. 37 no.3:600-601 My-Je '60. (MIRA 13:6)
(Astronomy--History)

PEREL', Yu.G. (Moskva)

Astronomy for the masses. Priroda 49 no.5:115-118 My '60.
(MIRA 13:5)

(Astronomy)

PERRI', Yu.G.

Humboldt's "Cosmos" and its role in the development of ideas on the structure of the universe. Ist.-astron.issl. no.5:197-222 '59. (MIRA 12:12)
(Humboldt, Alexander, Freiherr Von, 1769-1859)

PEREL, Yu. G.

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; ROZENBLYUM, N.D.; YEGORCHENKO, I.F.(Irkutsk); KAVERIN, A.A. (Irkutsk); KONSTANTINOVA, T.G. (Irkutsk); KUKLINA, V.A. (Irkutsk); KUKLIN, G.V. (Irkutsk); SAZONOVA, Z.G., (Irkutsk); CHERNYKH, L.I. (Irkutsk); CHERNYKH, N.S. (Irkutsk); DEMIDOBICH, Ye.G.; BRONSHTEN, V.A.; YAKHONTOVA, N.S. (Leningrad); PEROVA, N.B.; DOKUCHAYEVA, O.D.; KATASEV, L.A.; KLYAKOTKO, M.A.; PARENAGO, P.P.; SHCHERBINA-SAMOYLOVA, I.S.; MASEVICH, A.G.; RYABOV, Yu.A.; SHCHEGLOV, V.P.; PEREL', Yu.G.; MARTYNOV, D.Ya.; FEDYNSKIY, V.V.; VORONTSOV-VEL'YAMINOV, B.A.; ZIGEL', F.Yu.; BAKULIN, P.I., otv.red.; RAKHLIN, I.Ye., red.; AKHLAMOV, S.N., tekhn.red.

[Astronomical calendar] Astronomicheskii kalendar'. [A yearbook; variable section for 1959] Ezhegodnik. Peremennaia chast', 1959. Red.kollegiia P.I. Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1958. 370 p. (Vsesoiuznoe astronomo-geodezicheskoe obshchestvo, no.62) (MIRA 12:2)

1. Gosudarstvennoye astronomo-geodezicheskoye obshchestvo (for Kulagin, Kovbasyuk, Demidovich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva (for Dagayev, Rozenblyum, Bronshten, Perova).

(Astronomy--Yearbooks)

3(1)
AUTHOR: Perel',Yu.G.

SOV/33-35-5-15/20

TITLE: On the Philosophical Foundation of a Question (Po povodu 'filosofskogo obosnovaniya" odnogo voprosa)

PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 5, pp 797-800 (USSR)

ABSTRACT: The paper contains an adverse criticism of the article "On the Philosophical Foundation of the Problem:Life Beyond the Earth" of A.K.Suslov and the article "Problem of Organic Evolution in Modern Planetary Science" of I.N.Suvorov (both papers appeared in volume 5 of the"Trudy" of the section of astrobotany at the AS of the Kazakh SSR). It is said that the authors of the articles interprete the opinions of known scientists (Herschel) and philosophers (Kant) in a chaotic and despotic manner, that the question whether on Mars there exist living beings is needlessly made the central problem in the disagreement between the western and the eastern ideology, and that thereby the planetary science (especially astrobotany) is raised causelessly to the rank of a "selected" science.

SUBMITTED: May 21, 1958

Card 1/1

3(1) SOV/33-35-4-24/25

AUTHOR: Perel', Yu.G.

TITLE: Review of Gérard de Vaucouleurs: Discovery of the Universe. An Outline of the History of Astronomy from the Origin to 1956. London, pp 328, pl 20 (Retsenziya: Zherar de Vokuler. Otkrytiye Vselennoy. Ocherk istorii astronomii ot yeye vozniknoveniya do 1956 g. London, str 328, 20 vkl)

PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 4, pp 677-679(USSR)

ABSTRACT: This is a review, in general very much appreciating, of the title mentioned above. The reviewer welcomes the removal of the emphasis on the modern time. He regrets that the Central Asiatic astronomy is not treated and that the Soviet and Russian contribution is not sufficiently considered.

SUBMITTED: April 8, 1958

Card 1/1

AUTHOR: Perel', Yu.G. 33-35-3-27/27

TITLE: The General Meeting of the Committee for the History of Astronomy (Plenum komissii po istorii astronomii)

PERIODICAL: Astronomicheskiy zhurnal, 1958, Vol 35, Nr 3, pp 509-512 (USSR)

ABSTRACT: On February 7, 1958 a general meeting of the Committee for the history of astronomy at the astronomical Council took place in Pulkovo. Participators - members : Ye.L. Krinov, Prof.B.V. Kukarkin, P.G. Kulikovskiy, Professor D.Ya. Martynov, Corresponding Member of the Academy of Sciences of the USSR, Professor A.A. Mikhaylov, Professor K.F. Ogorodnikov, Yu.G. Perel', Professor P.V. Slavenas, Corresponding Member of the Academy of Sciences of the USSR Subbotin, Professor V.P. Shcheglov ; participators - guests : S.I. Yerepeyeva, G.A. Zhelnin, Professor V.P. Zubov, P.V. Myurisepp, N.I.Nevskaya, Z.K. Novokshanova, Professor P.P. Parenago, Corresponding Member of the Academy of Science, S.I. Seleshnikov, Professor Ye.K. Karadze, Member of the Academy of Science of the Georgian SSR, Professor V.V. Sharonov.
A statement of accounts was given by Kulikovskiy on the activity of the committee in 1957. Kharadze, Perel' and Zhelnin

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The General Meeting of the Committee for the History of Astronomy 33-35-3-27/27

gave informations on new results in the domain of the history of astronomy.

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PERRL', Yu.G. (Moskva)

Lunar and solar eclipses. Priroda 47 no.10:126-127 O '58.
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(Eclipses, Solar - 1958) (Eclipses, Lunar - 1958).