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TT-65-26480

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THAT RECORD TRACES OF PARTICLES WITH
MINIMUM IONIZATION (TYPE R) [Nauchnyye
Printsipy Ratsional'noy Retseptury Yadernykh Foto-
emul'siy Registriruyushchikh Sledy Chastits s Mini-
mal'noy Ionizatsiyey (Tip R)], tr. by Richard B.
Mudge. [1960] 45p. (foreign text included) 21 refs.
Order from LC or SLA ml\$3.00, ph\$7.80
UCRL trans-459

Trans. of Vsesoyuznyy Nauchno-Issledovatel'skiy
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p. 73-86.

The general principles are reviewed upon which the
development of a type R photoemulsion is based.

(Materials--Photographic, TT, v. 5, no. 6)

1. Photographic emulsions--
Development
2. Particle trajectories--
Detection

- I. Bogomolov, K. S.
- II. Sirotinskaya, A. A.
- III. UCRL trans-459
- IV. Lawrence Radiation Lab.,
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Office of Technical Services

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THE THEORETICAL BASES FOR THE PREPARATION OF HIGH QUALITY, FINE-GRAIN PHOTOGRAPHIC EMULSIONS (THE PRINCIPLE OF HOMOGENEITY) (Teoreticheskiye Osnovy Izgotovleniya Vysokochuvstvitel'nykh Meklozernistykh Fotograficheskikh Emul'siy). [1960] 23p. (foreign text included) 8 refs.
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p. 6-16.

The proposal is made to base the system of emulsion formulas upon the principle of homogeneity. Data are cited which indicate that in order to obtain maximum photosensitivity with minimum fog, the emulsion preparation must be so arranged that all the emulsion microcrystals have maximum homogeneous distribution. (Materials--Photographic, TT, v. 5, no. 6) (over)

61-15413

1. Photographic emulsions--
Sensitivity
- I. Bogomolov, K. S.
- II. UCRL Trans-451
- III. Lawrence Radiation Lab.,
U. of California, Berkeley

Office of Technical Services

Bogomolov, K. S.
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DESCRIPTORS: *Photographic emulsions, Sensitivity,
*Particles, Ionization, Density, *Particle trajectories,
Probability, Statistical distributions.

R-type emulsions in various degrees of finishing, with
a sensitivity within the limits of 15-55 grains per 100 μ ,
in the relativistic particle track, were used to study
the characteristic distribution of the density within the
wider limits of its absolute value. Histograms are
given of the distribution of the number of grains in 600
(Materials--Photographic, TT, v. 6, no. 12) (over)

61-20065

I. Bogomolov, K. S.

Office of Technical Services

Bogomolov, K. S., Deberdeyev, M. Yu. and others.
TYPE MP AND MK PHOTOMATERIALS FOR MICRO-
AUTORADIOGRAPHY, tr. by Ester Goldberg. 1961,
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UCRL Trans-460

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p. 87-93.

Discussions are presented on (1) the characteristics of
type MK and MP photographic materials, (2) radio-
graphic photofilms on flexible backing, (3) a method for
applying emulsion film to geological sections, metal
compounds, and histological slices, and (4) photo-
graphic materials with removable film.

(Materials--Photographic, TT, v. 5, no. 11)

61-15896

1. Autoradiography--
Materials
2. Photographic film--
Analysis
1. Bogomolov, K. S.
- II. Deberdeyev, M. Yu.
- III. UCRL Trans-460
- IV. Lawrence Radiation Lab.,
U. of California,
Berkeley

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