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### REPORT ON THE BOULDER MEETING OF THE INSTITUTE

The Twelfth Summer Meeting of the Institute of Mathematical Statistics was held at the University of Colorado, Boulder, Colorado, Monday, August 29 through Thursday, September 1, 1949. The meeting was held in conjunction with the summer meetings of the American Mathematical Society, the Mathematical Association of America, and the Econometric Society. The meeting was attended by the following 79 members of the Institute:

S. P. Agarwal, R. L. Anderson, T. W. Anderson, V. L. Anderson, K. J. Arnold, E. W. Barankin, C. A. Bennett, Agnes Berger, E. E. Blanche, A. H. Bowker, J. C. Brixey, Jean Bronfenbrenner, J. H. Bushey, H. C. Carver, Herman Chernoff, K. L. Chung, A. G. Clark, E. P. Coleman, E. L. Crow, J. H. Curtiss, W. J. Dixon, J. L. Doob, Aryeh Dvoretzky, H. P. Evans, W. D. Evans, W. T. Federer, William Feller, C. H. Fischer, J. S. Frame, T. C. Fry, H. M. Gehman, H. H. Germond, R. E. Greenwood, H. T. Guard, P. R. Halmos, J. L. Hodges, P. G. Hoel, Harold Hotelling, J. M. Howell, C. C. Hurd, C. A. Hutchinson, Irving Kaplansky, Leo Katz, H. S. Konijn, T. C. Koopmans, G. M. Kuznets, H. D. Larsen, D. H. Leavens, S. B. Littauer, H. B. Mann, Jacob Marschak, F. J. Massye, Dorothy J. Morrow, Jerzy Neyman, M. L. Norden, J. I. Northam, E. G. Olds, R. P. Peterson, G. B. Price, Mina S. Rees, P. R. Rider, F. D. Rigby, Herman Rubin, L. J. Savage, Elizabeth R. Scott,

I. E. Segal, Esther Seiden, Jack Sherman, W. B. Simpson, Milton Sobel, D. M. Studley, B. R. Suydam, A. G. Swanson, James Templeton, R. M. Thrall, J. W. Tukey, Abraham Wald, John Wishart, S. S. Wilks.

The Monday afternoon session was devoted to invited addresses with Professor Leonard J. Savage of the University of Chicago presiding. The attendance was approximately fifty. Professor J. L. Hodges of the University of California presented a paper, *Some Problems in Point Estimation*, and Professor W. T. Federer of Cornell University presented *A Comparison of the Proportionality of Covariance Matrices*.

On Tuesday Morning the Institute, the Mathematical Association of America, and the Econometric Society held a joint symposium on *Mathematical Training for Social Scientists*. Professor Jacob Marschak of the Cowles Commission for Research in Economics presided. The attendance was approximately one hundred fifty. The participating speakers were: Professor R. L. Anderson of North Carolina State College; Professor T. W. Anderson of Columbia University; Professor G. C. Evans of the University of California; Professor F. L. Griffin of Reed College; Professor Harold Gulliksen of Educational Testing Service; Professor William Jaffé of Northwestern University; Professor Harold Hotelling of the University of North Carolina; and Professor G. M. Kuznets of the University of California. At the end of the session the following resolution was adopted by those in attendance at the meeting:

Members of the Mathematical Association of America, the Institute of Mathematical Statistics, and the Econometric Society assembled in a joint session in Boulder, Colorado, on August 30, 1949, are of the opinion that officers of these societies should study the need for better mathematical training of social scientists, and the ways and means to improve mathematical preparation of social scientists, and that such a study may be most effectively conducted by a joint committee, possibly in co-operation with other interested societies, and in close touch with the Social Science Research Council, the National Research Council, or other national bodies concerned with general education and research. It is suggested that this committee report the results of its deliberations at the next joint meeting of the original participating societies.

The two joint sessions of the Institute and the Econometric Society were devoted to a Symposium on *Statistical Inference in Decision Making*. Professor Jerzy Neyman of the University of California presided on Tuesday afternoon. The attendance was approximately eighty. Professor Aryeh Dvoretzky of Hebrew University, Jerusalem presented *Decision Problems* and Professor Abraham Wald of Columbia University presented *Some Recent Results in the Theory of Statistical Decision Functions*. On Wednesday Morning, under the chairmanship of Professor Wald and an attendance of approximately seventy-five, the following papers were presented: *Remarks on a Rational Selection of a Decision Function* by Professor Herman Chernoff of the Cowles Commission for Research in Economics; *Psychological Probabilities* by Professor Leonard J. Savage; and *Complete Classes of Decision Functions for Some Standard Sequential and Non-sequential Problems* by Milton Sobel of Columbia University.

On Thursday Morning the Institute and the American Mathematical Society held a joint session for contributed papers with Professor P. R. Rider of Washington University presiding. The attendance was approximately seventy-five. The following papers were presented:

1. *Structure of Statistical Elements.*  
Mr. Duane M. Studley, Foundation Research, Colorado Springs.
2. *On the Relative Efficiencies of BAN Estimates.*  
Professor Leo Katz, Michigan State College.
3. *Adjustments of an Inverse Matrix Corresponding to Changes in the Elements of a Given Column or a Given Row of the Original Matrix.*  
Dr. Jack Sherman and Miss Winifred J. Morrison, The Texas Company Research Laboratories, Beacon, New York.
4. *On the Problem of Optimum Classification.*  
Professor Paul G. Hoel, University of California at Los Angeles.
5. *Optimal Linear Prediction of Stochastic Processes whose Covariances are Green's Functions.*  
Professor C. L. Dolph and Dr. M. A. Woodbury, University of Michigan.
6. *The Integral of the Gaussian Distribution over the Area Bounded by an Ellipse.*  
Dr. H. H. Germond, Rand Corporation, Santa Monica, California.
7. *Theorems on Convergency of Compound Distributions with Symmetric Components.*  
(By title)  
Dr. Maria Castellani, University of Kansas City.
8. *Large Sample Tests and Confidence Intervals for Mortality Rates.* (By title)  
Dr. J. E. Walsh, Rand Corporation, Santa Monica, California.
9. *Partial Sums of the Negative Binomial in Terms of the Incomplete Beta-function.* (By title)  
Dr. Julius Lieblein, National Bureau of Standards.

On Thursday afternoon Professor Jerzy Neyman presented the Second Rietz Memorial Lecture on *Consistent Estimates of the Linear Structural Relation in the General Case of Identifiability*. Professor Harold Hotelling presided and the attendance was approximately fifty. Dr. R. P. Boas, Jr. of Mathematical Reviews presented an invited address *The Representation of Probability Distributions by Charlier Series*.

The Institute sponsored a beer party on Tuesday evening and on Thursday evening a fry was held on Flagstaff Mountain.

HARRIS T. GUARD  
*Assistant Secretary*