

range for the participants to continue their summer research problems at their home institutions during the following academic year. Two brochures, one for college teachers and the other for high-school teachers, contain the relevant information. They are available from the Special Projects in Science Education Section, National Science Foundation, Washington 25, D. C. Application blanks must be obtained from the individual institutions, and in most cases must be returned to them by February 15.

Summer Programs

The 1963 session of the University of Grenoble's Summer School of Theoretical Physics, which will again be held at Les Houches, will deal with the topics of relativity, groups, and topology. The session will run from July 1 through August 23.

The following courses will be offered: introduction to general relativity (J. L. Synge), group theory (F. Gürsey), topology and differential geometry (C. W. Misner), geometrodynamics (J. A. Wheeler), experimental relativity (R. H. Dicke), detection of gravitational radiation (J. Weber), theory of gravitational radiation (R. K. Sachs), propagators in general relativity (A. Lichnerowicz), and quantization of geometry (B. S. DeWitt). Both French and English will be used in class.

The school is primarily intended for physicists who wish to become thoroughly acquainted with recent developments, and a solid background in the fundamentals of theoretical physics at the graduate level is a prerequisite. Admission will be limited to thirty participants. In the past, a number of National Science Foundation travel grants have been available for US citizens admitted to schools, such as Les Houches, which receive partial support from NATO, and it is hoped that similar grants may be available in 1963. Further information and application blanks can be obtained from Professor Cecile DeWitt, Department of Physics, University of North Carolina, Chapel Hill, N. C. Completed blanks must be returned to Grenoble by March 1.

The University of Uppsala's Institute of Physics will hold its annual physics seminar for scientists from developing countries from August 31, 1963, to about July 1, 1964, under the sponsorship of the Swedish Agency for International Assistance, the International Atomic Energy Agency, and the United Nations Educational, Scientific, and Cultural Organization. To be held at the Institute, the International Seminar for Research and Education in Physics will provide registrants with opportunities to perform research under the guidance of experienced scientists. It is open to non-European students and scientists, mainly from developing countries, who are teaching or doing research at a university or national laboratory. Requests for the required application forms, due by April 15, should be sent to the International Seminar, Institute of Physics, University of Uppsala, Uppsala, Sweden.

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