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voted to an open discussion of the problems of education in biophysics.

Inquiries regarding the meeting should be addressed to Prof. J. Tonnelat, Laboratoire de Biologie Physico-Chimique, Orsay, Seine-et-Oise, France.

Direct Nuclear Reactions

Argonne National Laboratory will sponsor a symposium on nuclear spectroscopy with direct reactions at the Center for Continuing Education in Chicago, from March 9 to 11, 1964. This meeting has been accepted as an American Physical Society Topical Conference, which means that the abstracts of contributed papers will appear in the *APS Bulletin*, and must conform to the rules for abstracts prescribed therein. The deadline for abstracts of contributions is February 1, 1964. The part of the program devoted to invited papers, including topics and confirmed speakers, is listed below:

1. Introduction: Direct Reactions (N. Austern)
2. Reliability of DWBA in Giving Spectroscopic Factors (G. R. Satchler)
3. Experimental Surveys of Pickup and Stripping Reactions with Deuterons (L. Green)
 - 3a. Nuclear Structure Studies with Deuterons (B. L. Cohen)
 - 3b. Spin Measurements ($d, p\gamma$), Polarization (J. P. Schiffer)
 - 3c. More Complex Single-Nucleon Stripping and Pickup (α, t), (d, He^3), etc.
4. Inelastic Scattering (J. S. Blair)

(Spin Identification and Transition Probabilities)

 - 4a. Inelastic Scattering and Coupled Potentials
 - 4b. High Energy Inelastic Scattering and Nuclear Structure
 - 4c. (p, n) Reactions and Isobar States (J. D. Anderson)
5. Nuclear Model Calculations of Spectroscopic Factors (M. H. Macfarlane)
 - 5a. Several shorter talks on various aspects of spectroscopic factors
6. More Complicated Reactions
 - 6a. Interpretation of More Complicated Reactions (p, α), (d, Li^6), (d, α), etc. (B. Bayman)
 - 6b. Pairwise Stripping and Pickup Reactions (p, t), (He^3, n), etc.

Abstracts and requests for further information should be sent to Dr. F. E. Throw, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, Ill.

Minerals and Metals

Highlighted by sessions on geothermal power sources, lunar geology, laser materials, and mineral resources of the ocean floor, the 1964 Metals and Minerals Conference will take place in Los Angeles on May 14 and 15. Sponsor of the meeting is the Southern California Section, American Institute of Mining, Metallurgical, and