direct product of the electrical resolution, but are in reality an extension of the helium spectrum. Two of these lines may, perhaps, be represented as lines of combination series.

PARIS.

Academy of Sciences, May 21.-M. Léon Guignard in the chair .-- P. Termier : Contribution to the knowledge of the tectonic of the Asturias.-C. de la Vallée Poussin: The best approximation of the functions of a real variable by expressions of given order .--E. Aries : The saturated vapour pressures of tetratomic bodies. The method described in earlier papers is applied to the cases of ammonia, acetylene, and phosphorus trichloride. From the experimental data available a full comparison is only possible in the case of ammonia, and for this the agreement between the experimental and calculated values is very satisfactory. -J. Pérès: Some remarks on certain developments in series.-A. Buhl: The series of Taylorian polynominals and Weierstrass domains .--- M. Luizet : Observations of the brightness of Nova Licorne.— A. Véronnet: The cooling and evolution of the sun.— C. Matignon: Ferro-silicons not attacked by acids. Analyses are given of six ferro-silicons and one ferroboron and the loss on treatment with four acid solutions, two of nitric acid and two of mixtures of acetic and butyric acids, studied. The comparative losses under similar conditions are tabulated.—MM. Masson and Faucon: The absorption of ultra-violet radiations by the phenylmethanes. Details of measurements are given for benzene, toluene, diphenylmethane, and triphenylmethane.—Ed. Chauvenet and Mlle. L. Nicole : The basic nitrates of zirconyl.—D. Berthelot and R. Trannoy: The sugar content of Sorghum saccharatum at different stages of growth. The results of analyses of juice taken on eight dates between August 10 and November 30 show a maximum sugar content about October 5. It is shown that the richness in sugar can be calculated from the density of the juice.—L. Cavel : The antiseptic value of some essential oils. The experiments were carried out on diluted sewage, and the amounts of essential oil determined stopping all bacterial growth. Results are given for forty-five essences, phenol being used as a standard of com-Two-thirds of the essential oil examined parison. proved to be stronger antiseptics than phenol, oil of thyme being the most powerful.--M. Folley: The aorta in exophthalmic goitre.

BOOKS RECEIVED.

The British Academy. Cosmic Law in Ancient Thought. By T. W. Rhys-Davids. Pp. 11. (London : H. Milford.) 18. net.

Italian Mountain Geology. By C. S. DuRiche Preller. 2 parts. Part i., pp. 99; part ii., pp. 107 to 192. (London : Dulau and Co., Ltd.) The Art of Health. By J. Long. Pp. xi + 192.

(London : Chapman and Hall, Ltd.) 5s. net. An Introduction to the History of Science. By Prof. W. Libby. Pp. x+288. (London : G. G. Harrap Pp. x + 288. and Co., Ltd.) 5s. net. Acoustics for Musicians. By Prof. P. C. Buck.

Pp. 152. (Oxford: Clarendon Press.) 7s. 6d. net.

DIARY OF SOCIETIES.

THURSDAY, JUNE 6. ROYAL SOCIETV, at 4.30.—Brevity, Frequence of Rhythm and Amount of Reflex Nervous Discharge as Indicated by Reflex Contraction: N. B. Dreyer and Prof. C. S. Sherrington. Royal INSTITUTION, at 3.—The Abode of Snow; Its Appearance, Inhabi-tants, and History: Sir F. Younghusband. LINNEAN SOCIETV, at 4.30.—A Revision of Some Critical Species of Echium [Viper's Bugloss], as Exemplified in the Linnean and other Herbaria, with

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a Description of *Echium judaicum*, a New Species from Palestine: C. C. Lacaita.—Experiments with Cyclamen: Capt. A. W. Hill.—The Relation-ship between the Symbionts in a Lichen: R. Paulson and S. Hastings.— Abnormal Apple-blossoms and Fruit: W. C. Worsdell.

FRIDAY, JUNE 7.

- ROVAL INSTITUTION, at 5.30.-The Romance of Petroleum: Sir B. Redwood.
- SATURDAY, JUNE 8. ROYAL INSTITUTION, at 3.-Problems in Bird-migration: Prof. C. J. Patten.

- ARISTOTELIAN SOCIETY, at 8.—The Ontological Argument for the Exist-ence of God : Prof. A. A. Cock. ROYAL GEOGRAPHICAL SOCIETY, at 8.—The Backbone of Africa : Sir Alfred Sharpe. Society of Engineers, at 5.30.—War on and under the Sea : Edwin Hall.
- TUESDAY, JUNE 11. ZOOLOGICAL SOCIETY, at 5.30.-On Two New Elasmobranch Fishes from the Upper Jurassic Lithographic Stone of Bavaria: Dr. A. Smith Wood-ward.-The Function of Pathology in Evolution: Morley Roberts.

WEDNESDAY, JUNE 12. BRITISH ASSOCIATION GROPHYSICAL COMMITTEE (Royal Astronomical Society), at 5.—Discussion: The Tides. Opener, Prof. H. Lamb, followed by Prof. Love, Mr. Proudman, and others.

THURSDAY, JUNE 13. OPTICAL SOCIETY, at 7.—The Prevention of Filming in Enclosed Optical Instruments: H. S. Ryland.—A Chart for Finding the Number of Lenses in, and Size of, a Block : Horace Lee.—Charts for Assisting in the Selec-tion of Suitable Glasses for Cemented Doublets : T. Smith.

FRIDAY, JUNE 14.

ROYAL ASTRONOMICAL SOCIETY, at 5. PHYSICAL SOCIETY, at 5.—Discussion: The Teaching of Physics in Schools: Opener, Sir Oliver J. Lodge.

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