

NOTES.

THE Fifth Summer Meeting of the AMERICAN MATHEMATICAL SOCIETY will be held at the Institute of Technology, Boston, Mass., on Friday and Saturday, August 19th and 20th, thus immediately preceding the meeting of the American Association for the Advancement of Science. A colloquium will be held in connection with the Meeting. This will be conducted by Professor W. F. Osgood, who will give a course of lectures on some of the problems and methods of the modern theory of functions, and by Professor A. G. Webster who will treat certain portions of mathematical physics. A circular giving a more definite announcement in regard to the colloquium and the regular sessions will shortly be issued by the Secretary.

THE mathematical prize of the PRINCE JABLONOWSKI SOCIETY for 1897 was not awarded, no papers having been received. The prize subject proposed for 1898 was reported in the BULLETIN, vol. 2 (1896), p. 118. For 1901 the Society offers a prize of 1,000 marks for the best treatment of the following problem :

“ To complete in some essential feature the theory of the quadratic differential forms.”

“ The theory of the quadratic differential forms, which was first exploited by Riemann and was especially advanced by Christoffel and Lipschitz, has acquired a prominent significance through the modern investigations in geometry, dynamics, and the theory of transformation groups, and every advance in the pure theory would react beneficially in these various directions. Desiring that the theory of the quadratic differential forms should be completed in some essential feature, the Society invites the attention of the candidates especially to the question, raised by Lie’s researches, of the nature and properties of the forms which admit of continuous groups of transformations. For the special case $n = 3$ Bianchi has recently obtained valuable results ; it is to be hoped that the criteria for deciding whether a given form belongs to a preassigned type may be obtained in invariant form, and that the study of the geometries of the spaces in question may prove profitable.

Manuscript must be in the hands of the Secretary of the Society by November 30, 1901. Details as to anonymity, languages permissible, etc., may be obtained from the Secretary (for 1898, Professor A. Leskien, Leipzig, Stephanstrasse, 10).