

## THIRTY-THIRD SESSION, 1914-1915.

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### *First Meeting, Friday, 13th November 1914.*

1. The convergence of the series in Mathieu's Functions - G. N. WATSON.
2. Taylor's cubics associated with a triangle in non-euclidean geometry - - - - - Dr D. M. Y. SOMMERVILLE.
3. The elliptic cylinder functions of the second kind - E. LINDSAY INCE.

### *Second Meeting, Friday, 11th December 1914.*

1. The Geometry of Space - - - - - A. W. H. THOMPSON.
2. On a class of linear differential equations whose solutions satisfy integral equations - - - - Prof. E. T. WHITTAKER.
3. A theorem on the contact of circles leading up to Feuerbach's and Hart's theorem - - - - Dr JOHN DOUGALL.

### *Third Meeting, Friday, 15th January 1915.*

1. Vector Errors - - - - - HENRY BRIGGS.
2. Solid Geometry - - - - - A. W. H. THOMPSON.
3. On an Integral-Equation whose solutions are the Legendre polynomials - - - - Prof. E. T. WHITTAKER.
4. Easy Proof of Von Staudt's Theorem - - - - Dr W. P. MILNE.

### *Fourth Meeting, Friday, 12th February 1915.*

1. Note on Suspension Bridge Catenaries - - - - Prof. G. H. BRYAN.
2. On a class of Integral Equations - - - - PIERRE HUMBERT.
3. The roots of the function  $W_{k,m}(z) \dots$  - - - - ARCH. MILNE.
4. The Theory of Moments in Rigid Dynamics - - - - Dr C. G. KNOTT.
5. On Spheroidal Harmonics - - - - EDWARD BLADES.

### *Fifth Meeting, Friday 12th March 1915.*

1. Solid Geometry - - - - - A. W. H. THOMPSON.
2. A simple link apparatus for the mechanical solution of quadratic equations - - - - Dr G. D. C. STOKES.
3. New formulae about the theory of the series of alternate sign - - - - F. TAVANI.

*Sixth Meeting, Friday, 14th May 1915.*

1. On the roots of a derivative of a rational function - - L. R. FORD.
2. Study of the Life and Writings of Colin Maclaurin - C. TWEEDIE.
3. Recurrence formulae for the functions which represent solutions of the differential equation

$$\frac{d^2u}{dx^2} - a^2u = \frac{p(p+1)}{x^2}u \quad - \quad - \quad \text{H. T. FLINT.}$$

4. Exhibition of two simple nomograms - - Prof. E. T. WHITTAKER.

*Seventh Meeting, Friday, 11th June 1915.*

1. On Spheroidal Harmonics and Allied Functions - - G. B. JEFFERY.
2. Determinants connected with the periodic solutions of Mathieu's Equation - - - - A. G. BURGESS.
3. On the oscillation functions derived from a discontinuous function - - - - - L. R. FORD.
4. The angle between two lines in trilinears - - - W. L. MARR.