

Extracts from the papers of Sir Charles Wheatstone

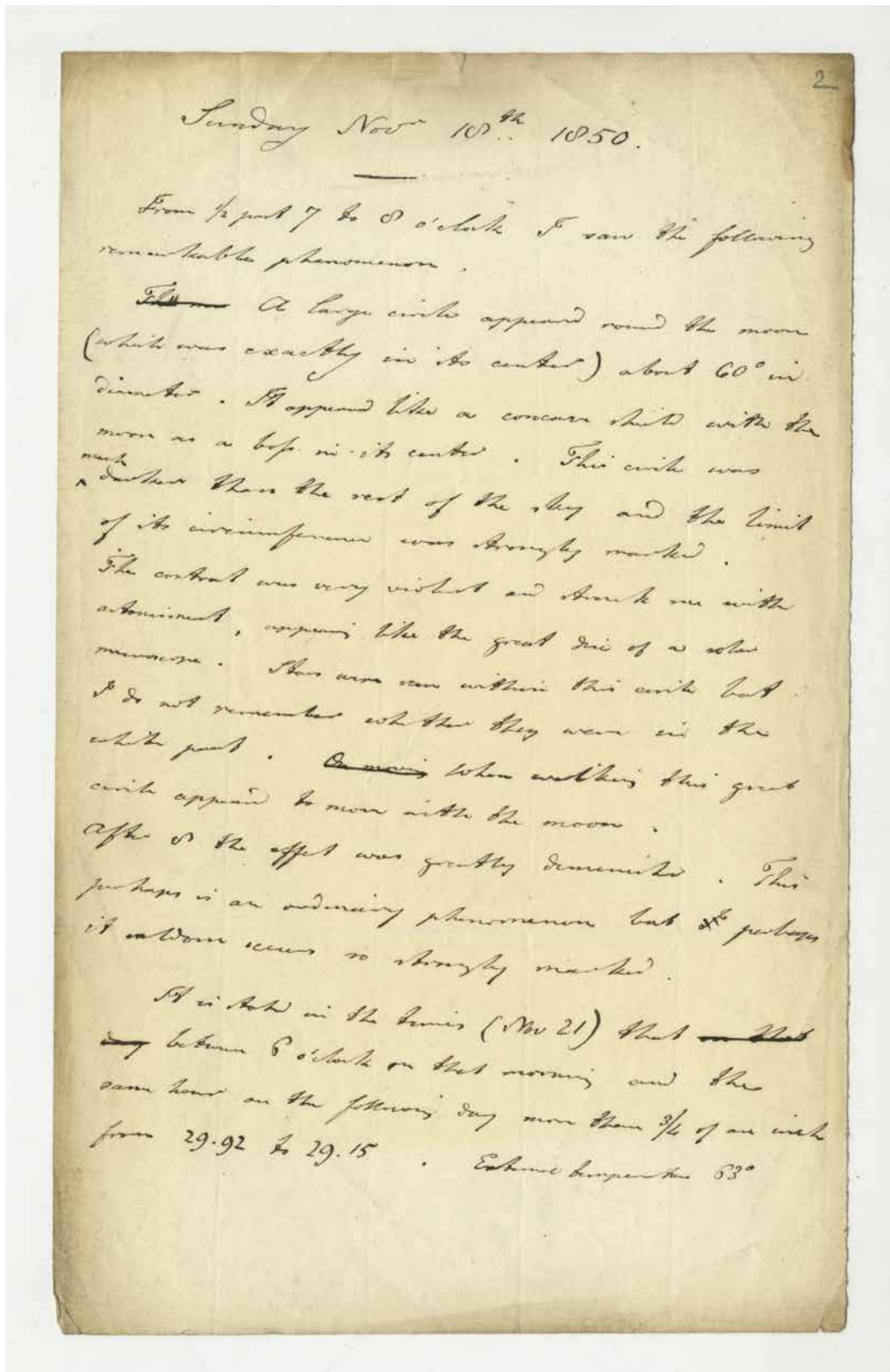
WHEATSTONE 4: Working papers and experimental observations relating to optics including polarisation, photometry, spectra and the characteristics of light, [1840-1875]

K/PP107/4/7

[1850-1875]

Notes on optics, notably including description of lunar nimbus, 1850; outline of the function of the eidotrope, a kind of projection device; brief observations on the operation of the human eye, and on binocular vision. With diagrams and equations.

The Papers of Charles Wheatstone
K/PP107/4/7 - Papers relating to optics



K/PP107/4/7/2

Description by Wheatstone of witnessing a lunar halo, 1850 Nov 18.

The Papers of Charles Wheatstone

K/PP107/4/7 - Papers relating to optics

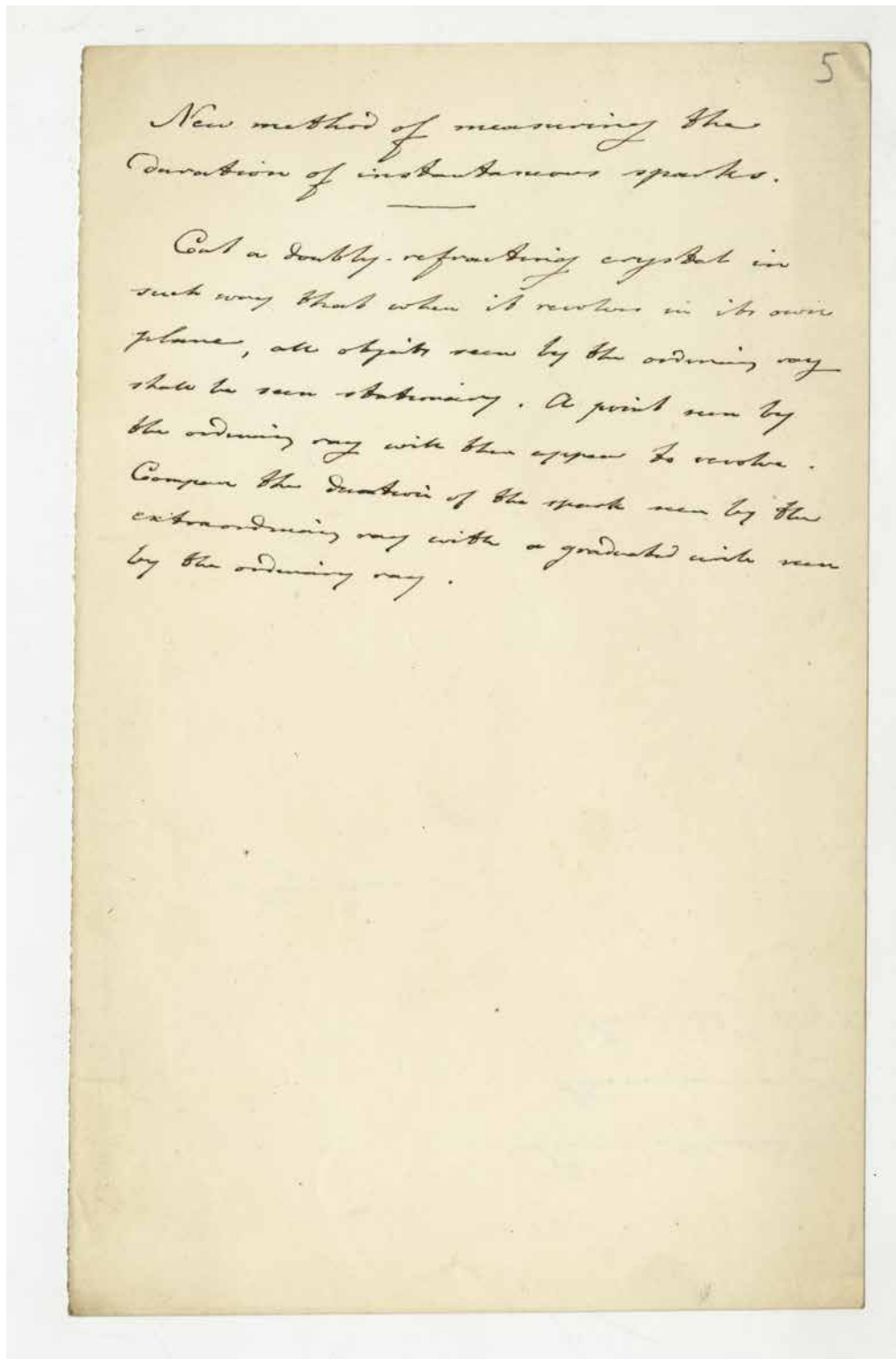
4

There can be no doubt of the propriety of printing
 Professor Stokes' paper in the *Philosophical Transactions*,
 it is a valuable addition to ~~the important papers on~~
~~fluorescence~~ the numerous papers on the subject which have been
 recently published relating to the phenomenon of the
 electric light, especially as showing how ^{the} ~~the~~ ^{fluorescence} ~~can~~
 exposure ~~can~~ or fluorescence can be applied to the
 investigation of and determination of the position of the
 invisible rays. Some of the incidental observations have
 been made before, but as the ^{state of the} ~~subject~~ ^{is becoming} so well
 known, ~~the particular observations which~~ it is not of much
 consequence in every communication ^{relating to} ~~the subject~~,
 to particularly ~~be~~ ^{mentioned}. ~~Therefore the observations~~
 mentioned.

K/PP107/4/7/4

Draft note commenting on a paper 'On the Long Spectrum of Electric Light' by George Gabriel Stokes (1819-1903), physicist, published in 1862 in the *Philosophical Transactions of the Royal Society*, [1862].

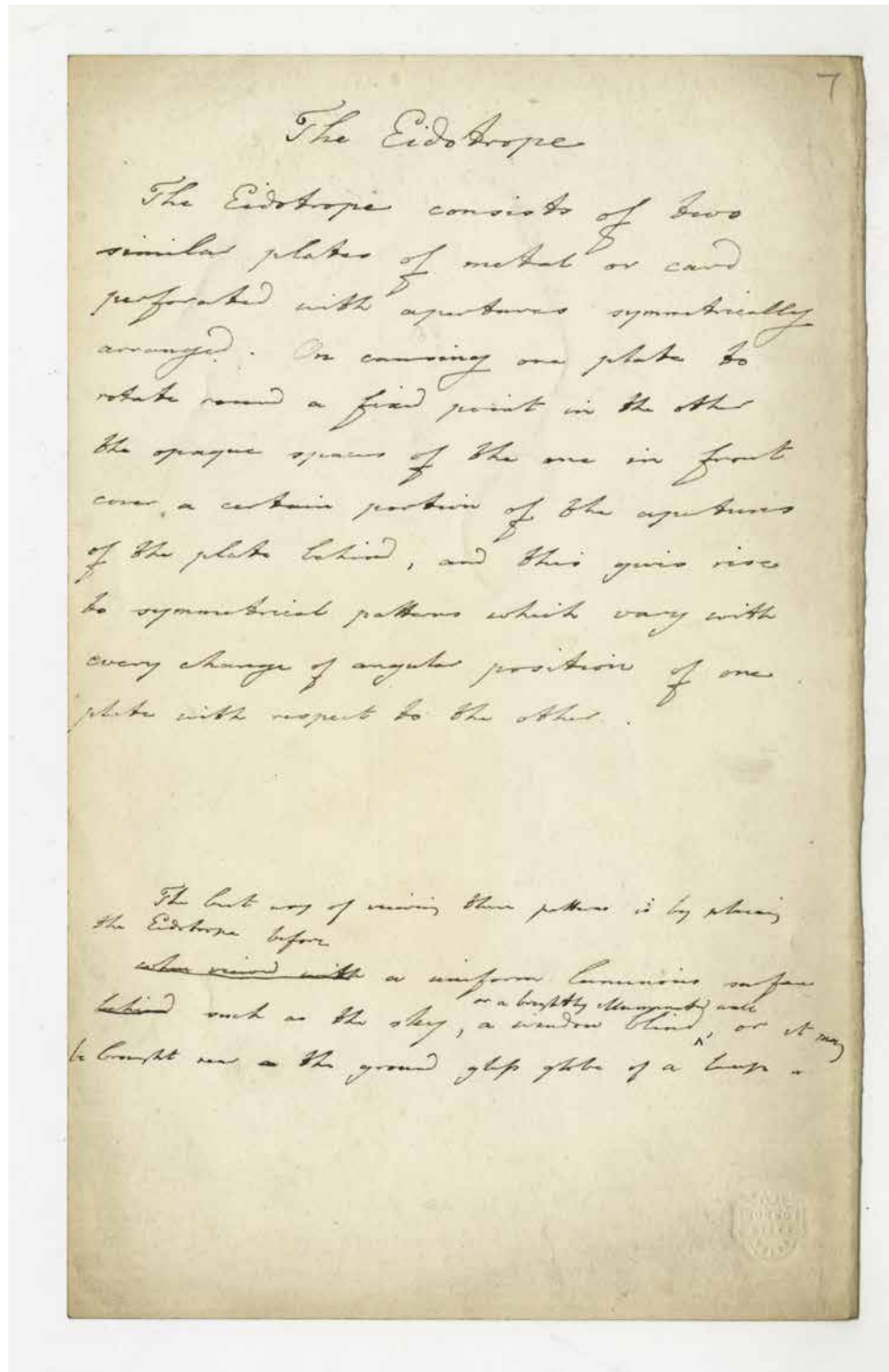
The Papers of Charles Wheatstone
K/PP107/4/7 - Papers relating to optics



K/PP107/4/7/5

Note describing a 'New method of measuring the duration of instantaneous sparks' using a cut doubly-refracting crystal, [1850-1875].

The Papers of Charles Wheatstone
K/PP107/4/7 - Papers relating to optics



The Papers of Charles Wheatstone

K/PP107/4/7 - Papers relating to optics

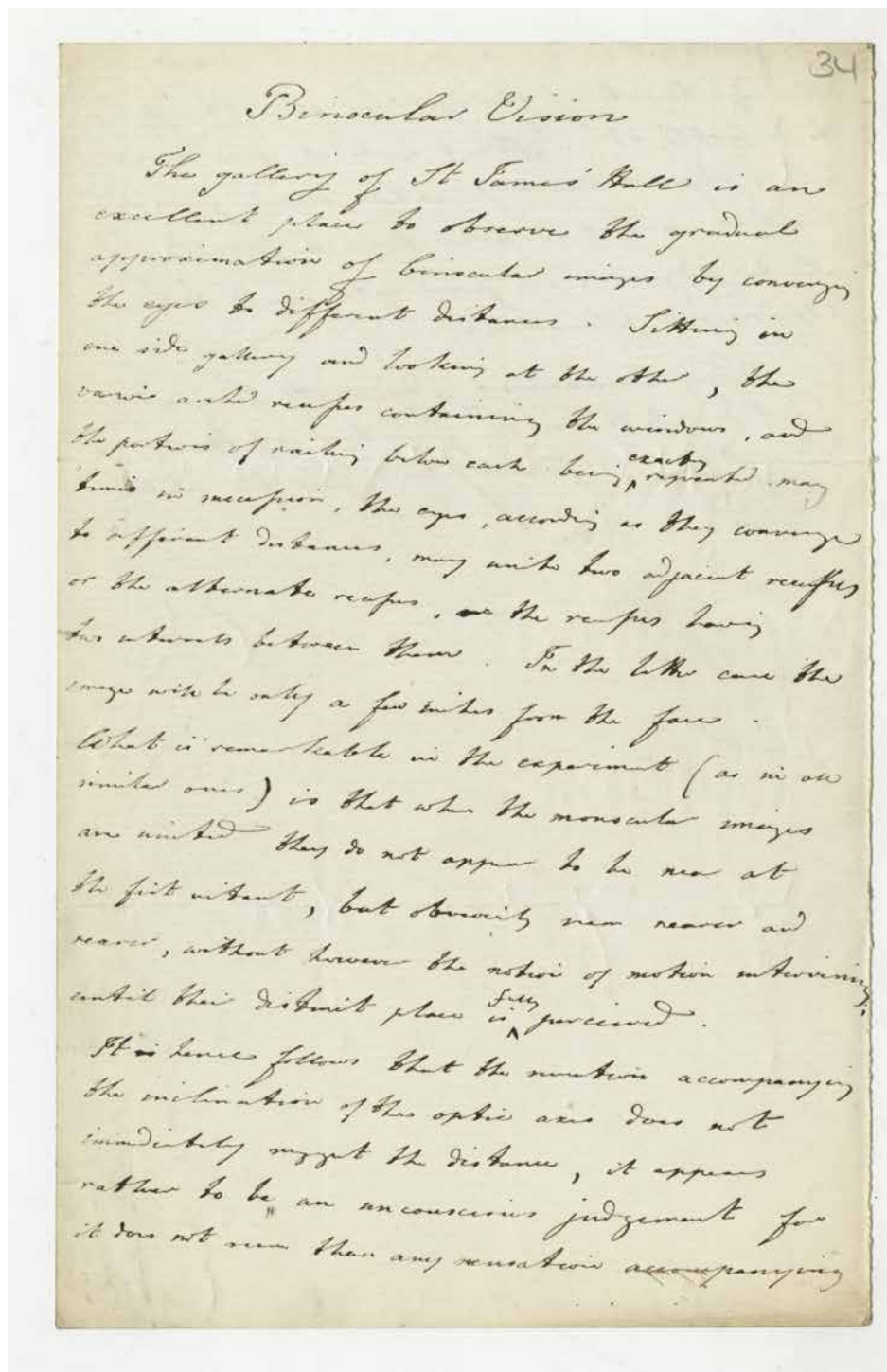


K/PP107/4/7/8

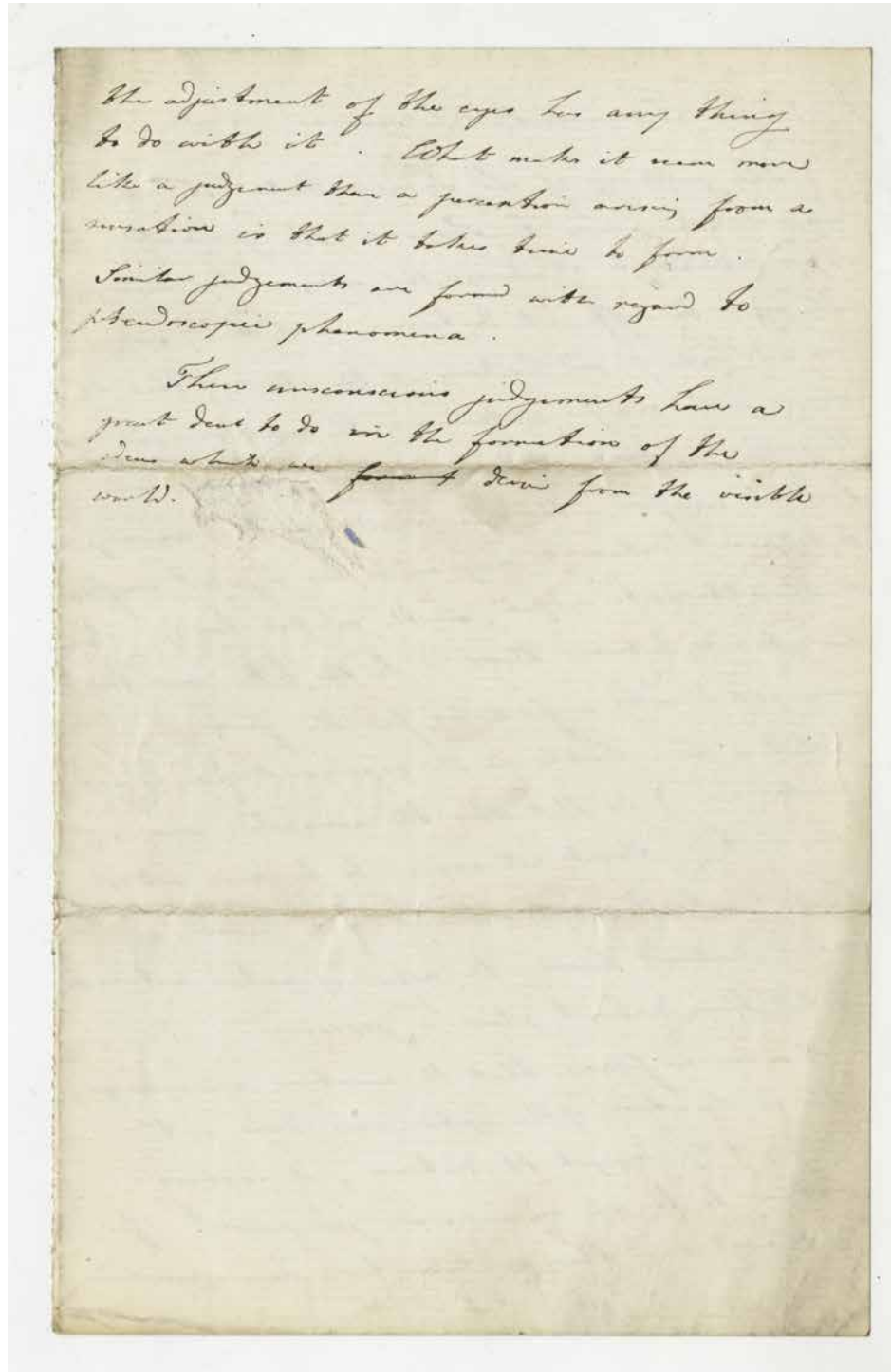
Printed card for use in an optical instrument to demonstrate optical phenomena, [1850-1875].

The Papers of Charles Wheatstone

K/PP107/4/7 - Papers relating to optics



The Papers of Charles Wheatstone
K/PP107/4/7 - Papers relating to optics

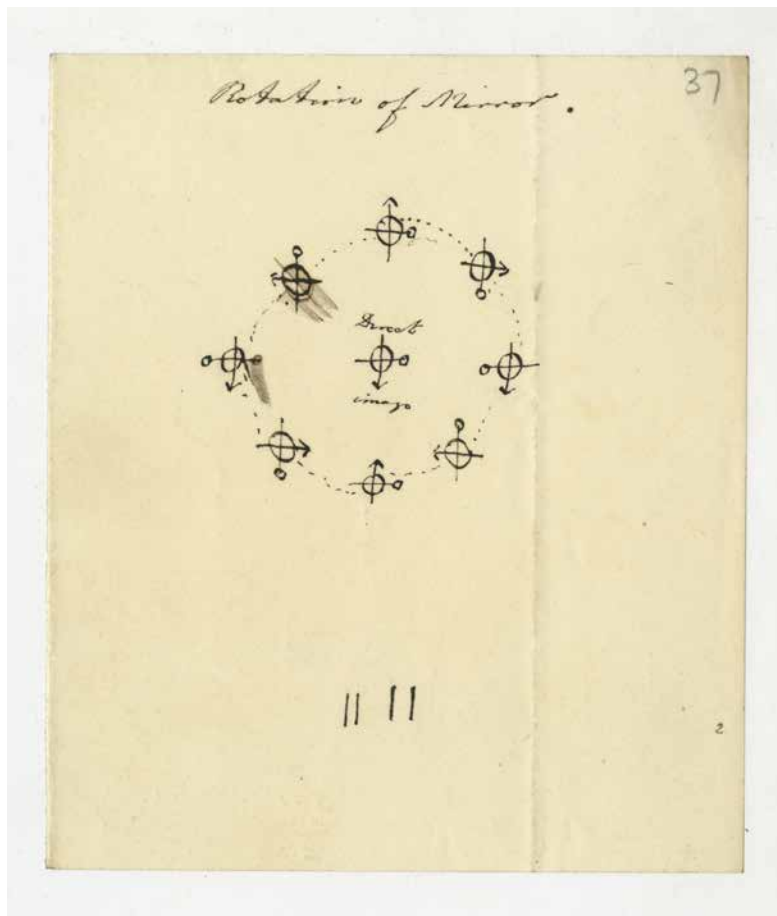


K/PP107/4/7/34

Draft notes describing binocular vision, [1850-1875], page 2.

The Papers of Charles Wheatstone

K/PP107/4/7 - Papers relating to optics

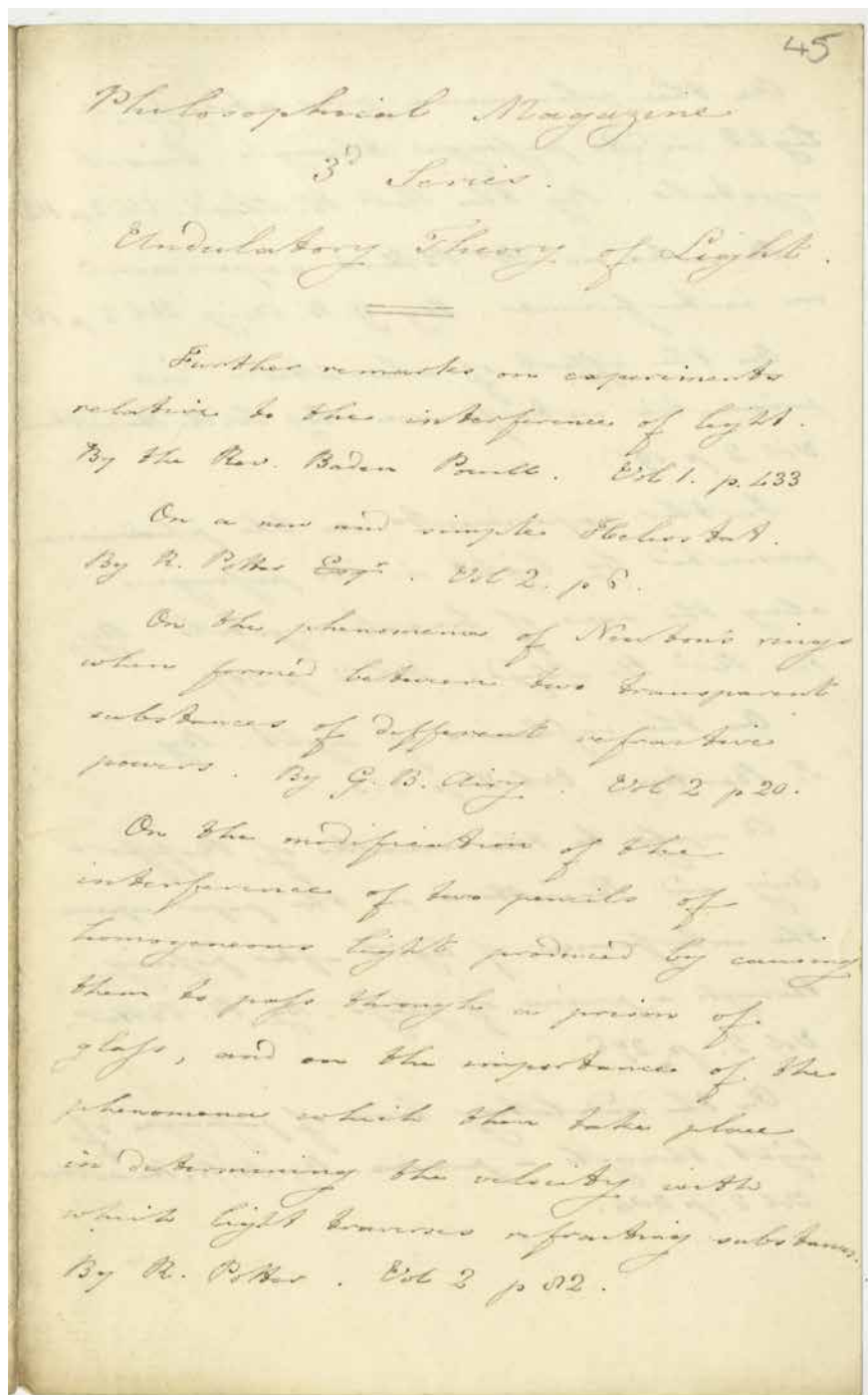


K/PP107/4/7/37

Diagram showing the rotation of a mirror, [1850-1875].

The Papers of Charles Wheatstone

K/PP107/4/7 - Papers relating to optics

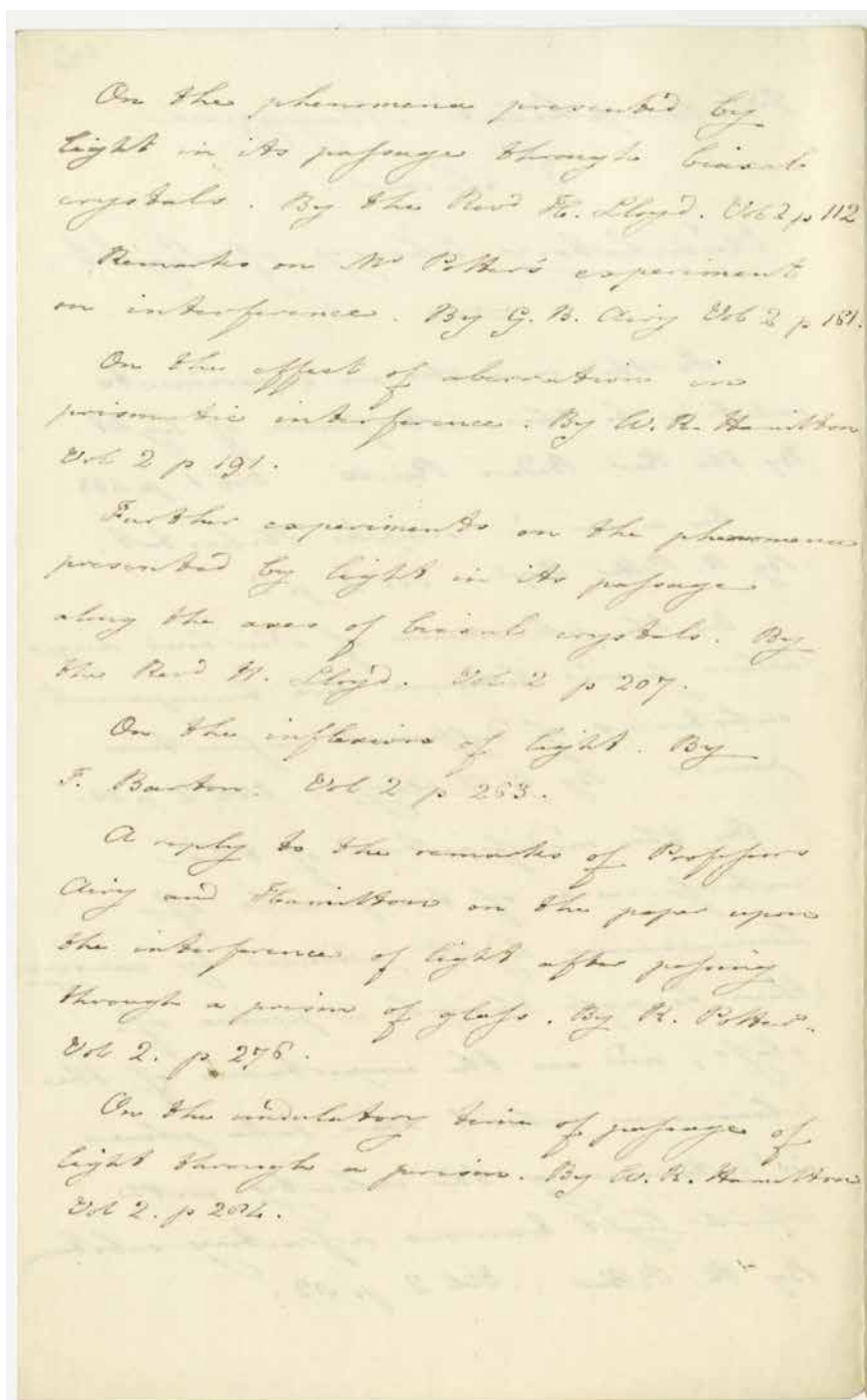


K/PP107/4/7/45

List of papers published in the Philosophical Magazine on the subject of the 'Undulatory Theory of Light' including papers by Rev Baden Powell (1796-1860), physicist, George Biddell Airy (1801-1892), mathematician and Astronomer Royal, John Frederick William Herschel (1792-1870), mathematician and astronomer, William Henry Fox Talbot, (1800-1877), photography pioneer, William Rowan Hamilton (1804-1865), mathematician, James Macculagh (1809-1847), mathematician, Humphrey Lloyd (1800-1881), physicist, and Sir David Brewster (1781-1868), natural philosopher, [1850-1875], page 1.

The Papers of Charles Wheatstone

K/PP107/4/7 - Papers relating to optics

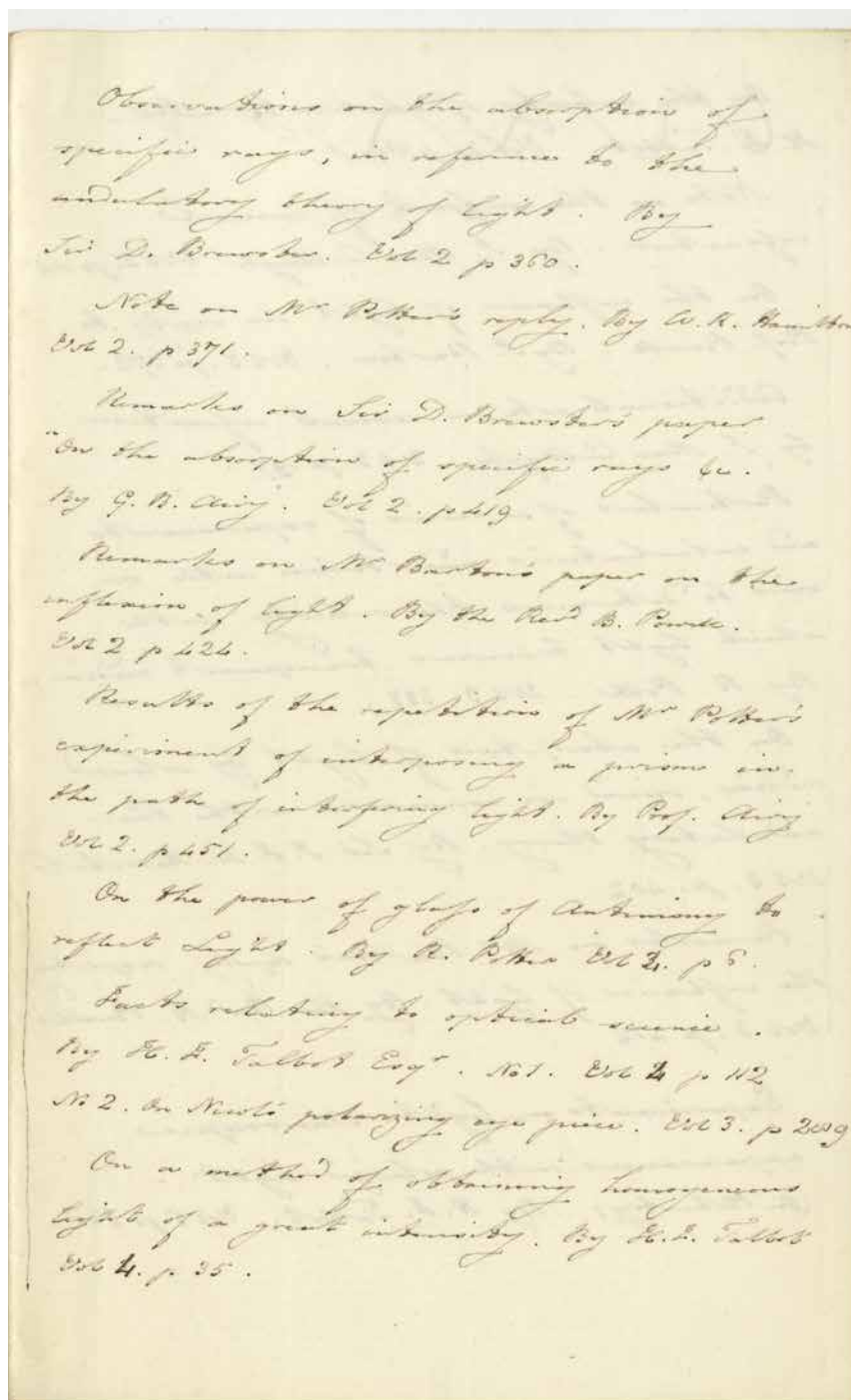


K/PP107/4/7/45

List of papers published in the Philosophical Magazine on the subject of the 'Undulatory Theory of Light' including papers by Rev Baden Powell (1796-1860), physicist, George Biddell Airy (1801-1892), mathematician and Astronomer Royal, John Frederick William Herschel (1792-1870), mathematician and astronomer, William Henry Fox Talbot, (1800-1877), photography pioneer, William Rowan Hamilton (1804-1865), mathematician, James Macculagh (1809-1847), mathematician, Humphrey Lloyd (1800-1881), physicist, and Sir David Brewster (1781-1868), natural philosopher, [1850-1875], page 2.

The Papers of Charles Wheatstone

K/PP107/4/7 - Papers relating to optics

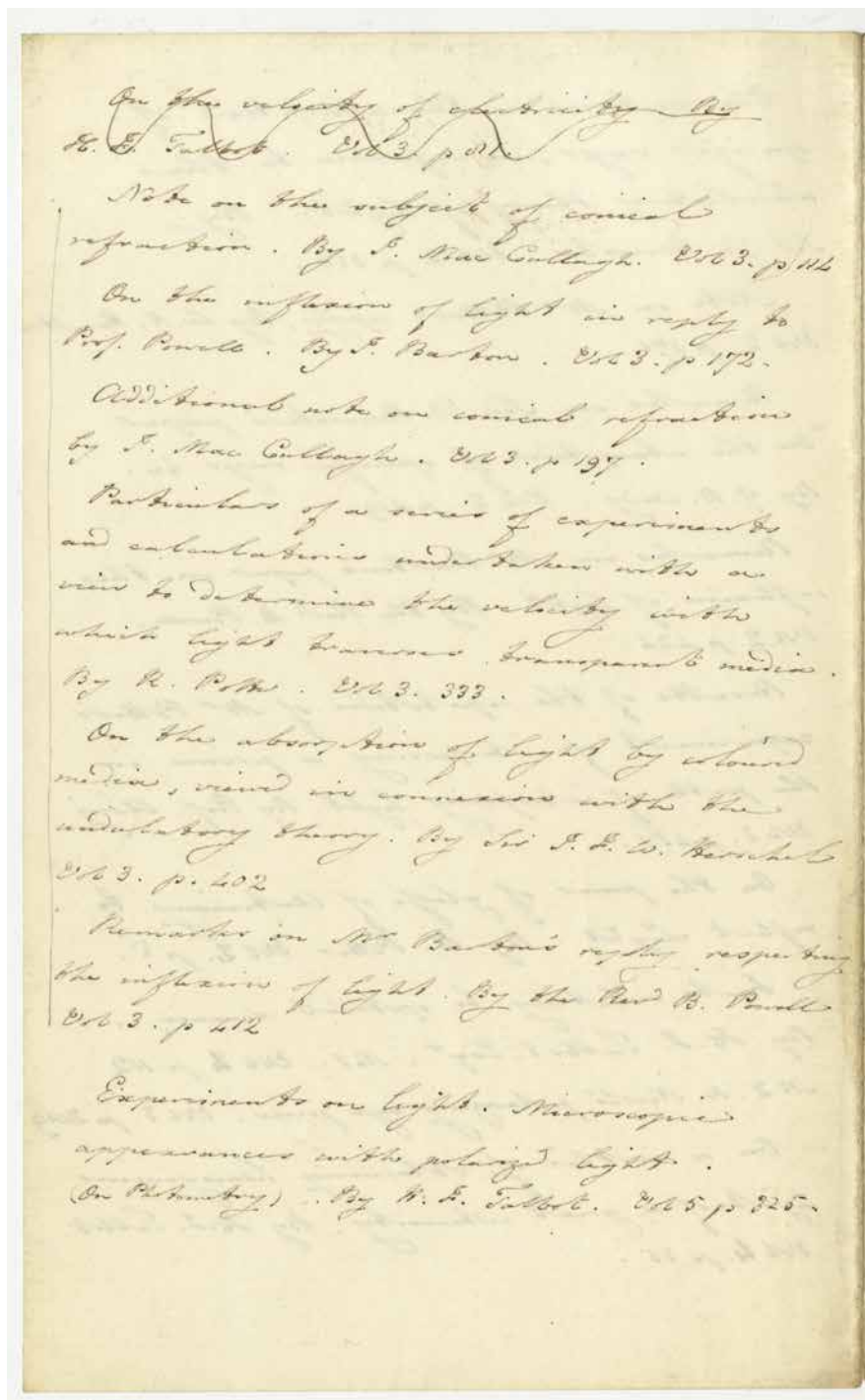


K/PP107/4/7/45

List of papers published in the Philosophical Magazine on the subject of the 'Undulatory Theory of Light' including papers by Rev Baden Powell (1796-1860), physicist, George Biddell Airy (1801-1892), mathematician and Astronomer Royal, John Frederick William Herschel (1792-1870), mathematician and astronomer, William Henry Fox Talbot, (1800-1877), photography pioneer, William Rowan Hamilton (1804-1865), mathematician, James Macculagh (1809-1847), mathematician, Humphrey Lloyd (1800-1881), physicist, and Sir David Brewster (1781-1868), natural philosopher, [1850-1875], page 3.

The Papers of Charles Wheatstone

K/PP107/4/7 - Papers relating to optics

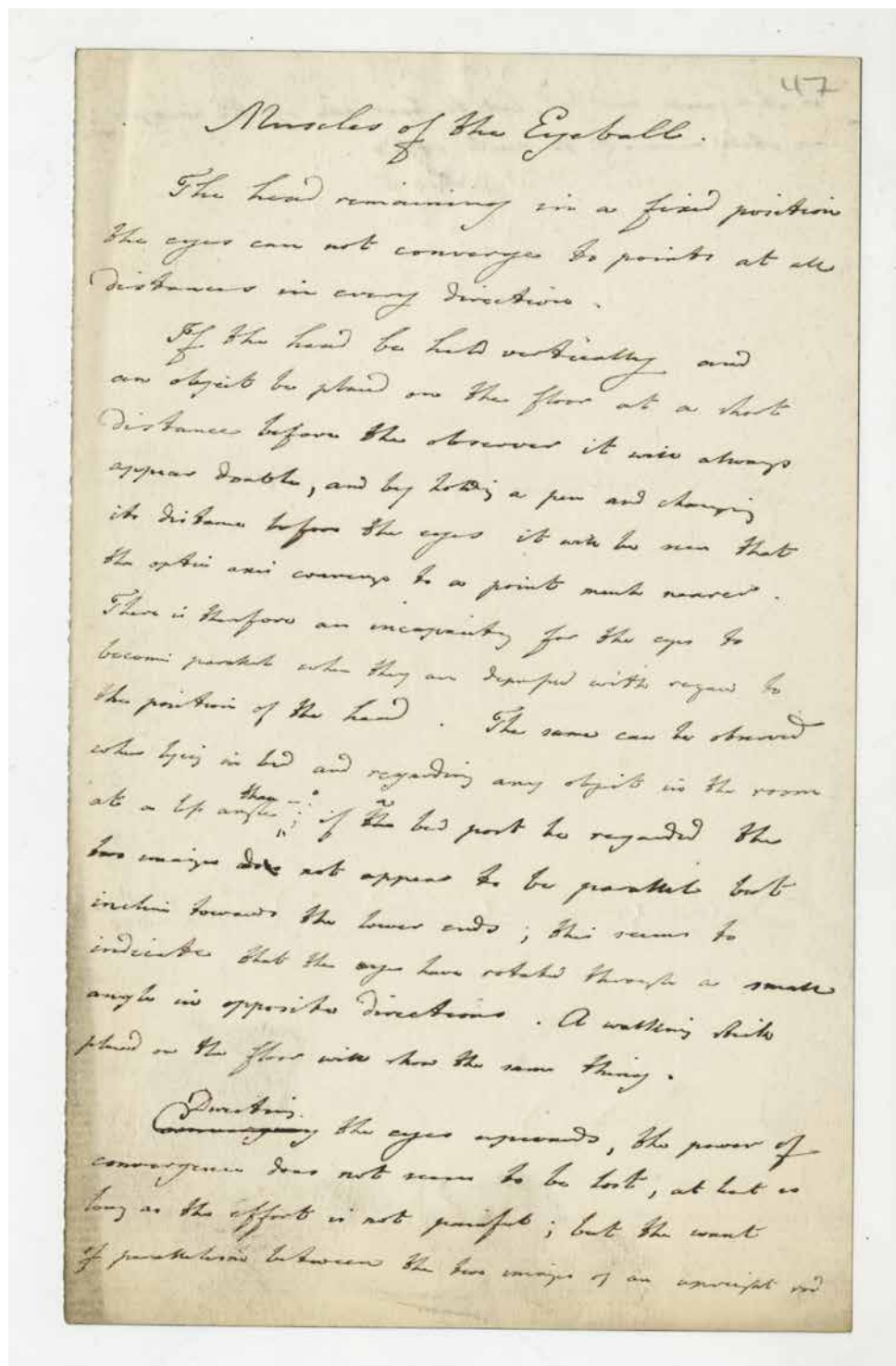


K/PP107/4/7/45

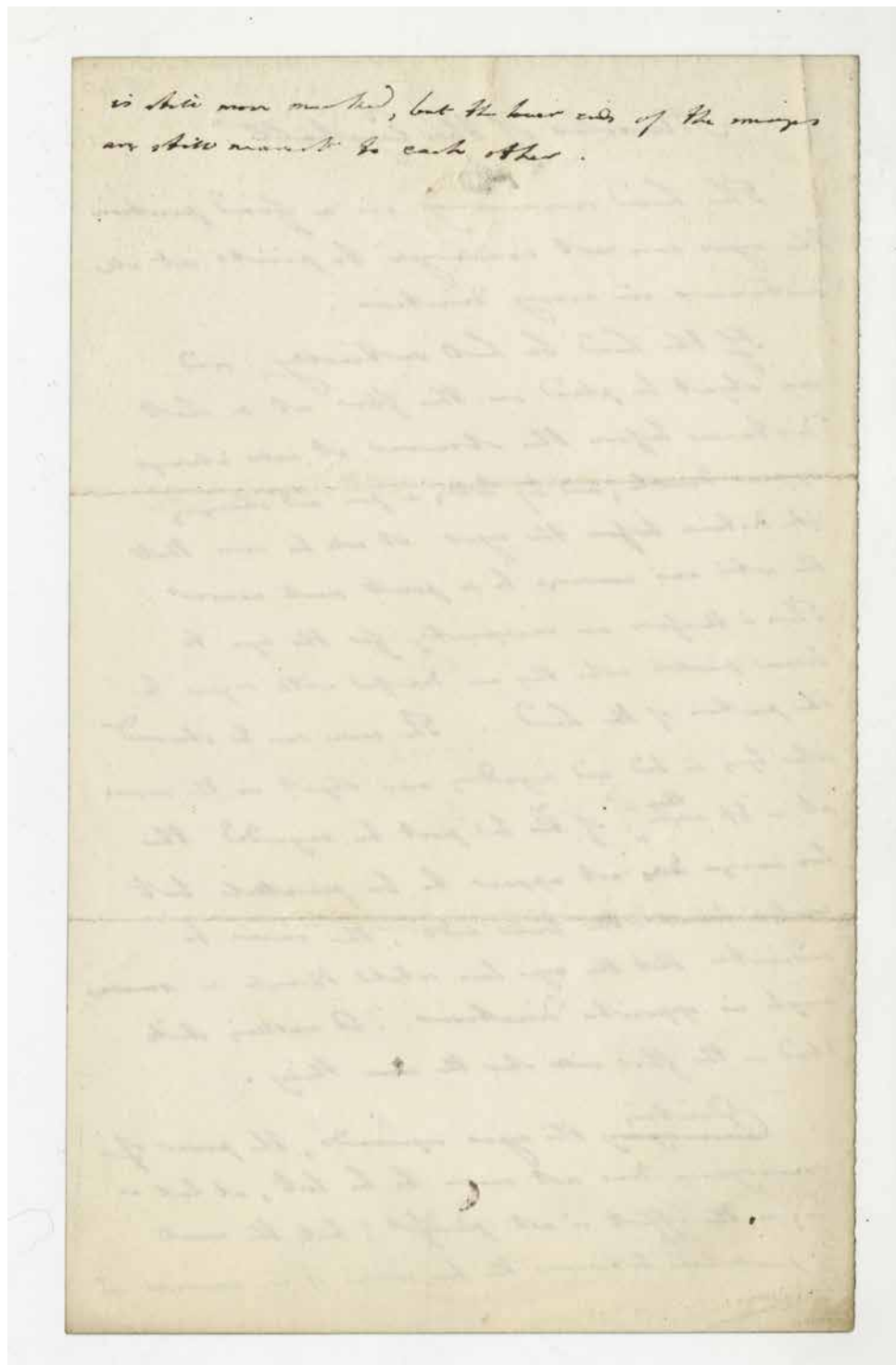
List of papers published in the Philosophical Magazine on the subject of the 'Undulatory Theory of Light' including papers by Rev Baden Powell (1796-1860), physicist, George Biddell Airy (1801-1892), mathematician and Astronomer Royal, John Frederick William Herschel (1792-1870), mathematician and astronomer, William Henry Fox Talbot, (1800-1877), photography pioneer, William Rowan Hamilton (1804-1865), mathematician, James MacCullagh (1809-1847), mathematician, Humphrey Lloyd (1800-1881), physicist, and Sir David Brewster (1781-1868), natural philosopher, [1850-1875], page 4.

The Papers of Charles Wheatstone

K/PP107/4/7 - Papers relating to optics



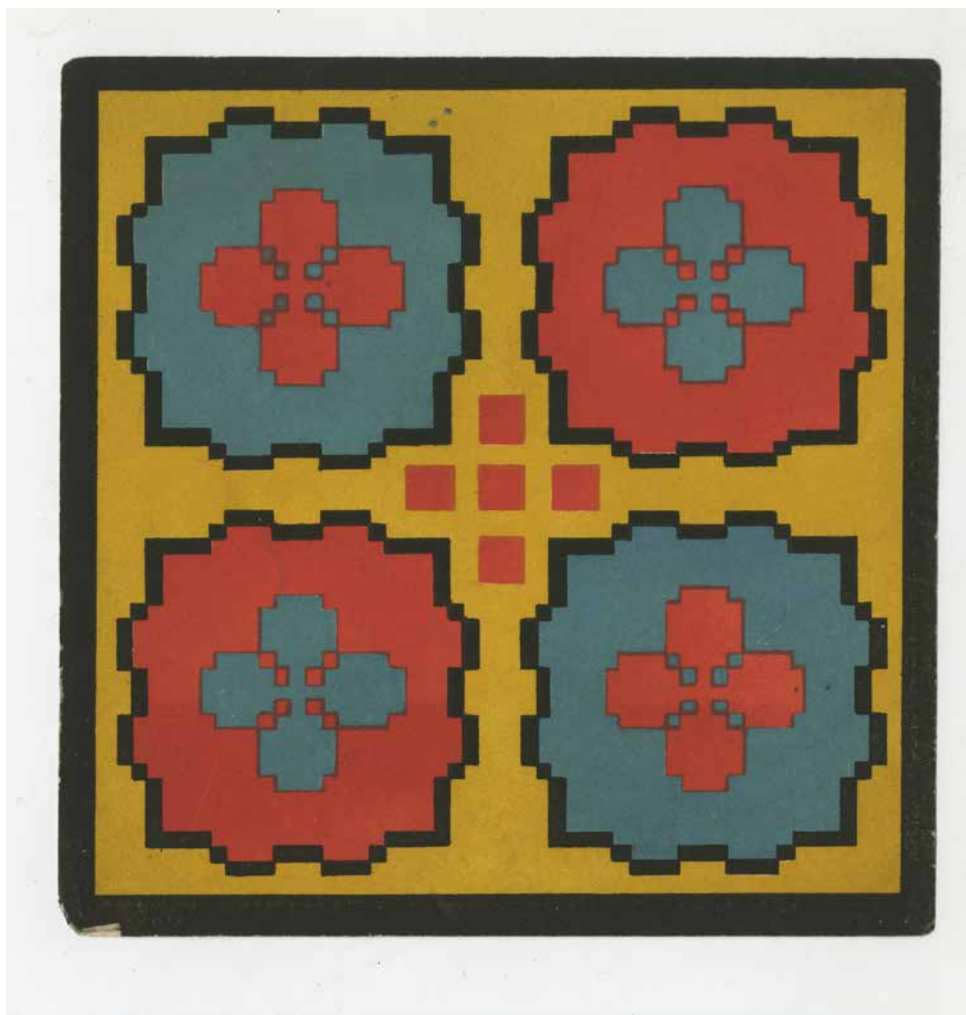
The Papers of Charles Wheatstone
K/PP107/4/7 - Papers relating to optics



K/PP107/4/7/47

Notes describing the muscles found in the human eye, [1850-1875], page 2.

The Papers of Charles Wheatstone
K/PP107/4/7 - Papers relating to optics



K/PP107/4/7/50

Square card with coloured geometric flower pattern for use with an optical instrument, [1850-1875].

The Papers of Charles Wheatstone
K/PP107/4/7 - Papers relating to optics



K/PP107/4/7/51

Square coloured card with geometric flower for use in an optical instrument, [1850-1875].

The Papers of Charles Wheatstone
K/PP107/4/7 - Papers relating to optics



K/PP107/4/7/52

Square coloured card showing dancing figures for use in an optical instrument, [1850-1875].

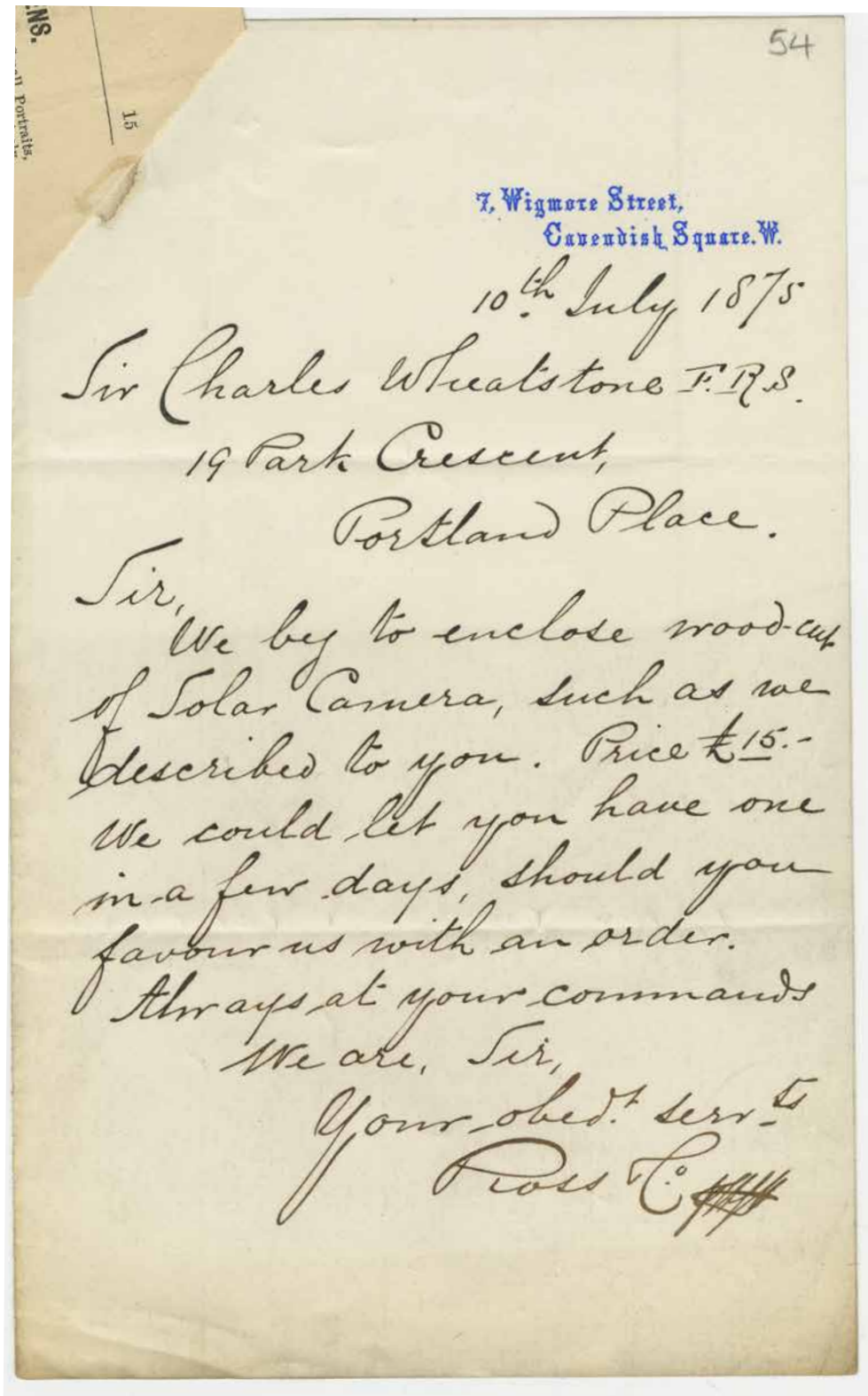
The Papers of Charles Wheatstone
K/PP107/4/7 - Papers relating to optics



K/PP107/4/7/53

A cutting from Atkinson's List of Photographic Specialities' for Woodward's Solar Camera [David Acheson] Woodward (1823-1909), American portrait painter and inventor, 1875.

The Papers of Charles Wheatstone
K/PP107/4/7 - Papers relating to optics



K/PP107/4/7/54

Letter from Ross & Co, optical and photographic instrument manufacturer and retailer enclosing the cutting for Woodward's Solar Camera, 1875 Jul 10.