Optical Fourier Transforms

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Date of experiment: 10/02/2017 to , Date of report: 20/11/2016

Through the study of the Fourier Transforms of blah blah blah. [4].

I. INTRODUCTION

Intro

$$35000 \times [\frac{sin[\frac{1}{47} \times (x - 690)]}{\frac{1}{47} \times (x - 690)}]^2 \quad (1)$$

II. METHOD

Method

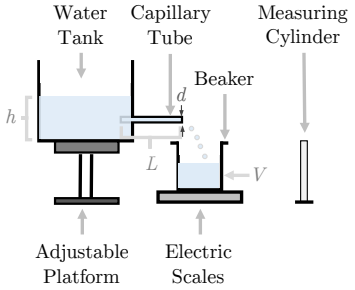

FIG. 1: A schematic of the experimental set-up used to collect data.

Method

III. RESULTS

Results

Tube	Radius, a [mm]	η [mPa s]	χ^2_ν
Blue	0.55 ± 0.03	1.0 ± 0.2	11.0
Red	0.47 ± 0.03	1.1 ± 0.3	5.31
Black	0.46 ± 0.03	1.0 ± 0.3	1.94

TABLE I: For each tube is shown its radius, their respective calculated value for the viscosity of water η, and the reduced chi-squared statistic, χ^2_ν.

IV. DISCUSSION

Discussion

V. CONCLUSIONS

Conclusion

[1] Salvatore P. Sutera and Richard Skalak *The History of Poiseuille's Law*. Annu. Rev. Fluid Mech., 1993.
[2] Raymond A. Serway, Chris Vuille, and Jerry S. Faughin *College Physics, 8th Edition*. Brooks/Cole, Belmont, CA, USA, 2009.
[3] Hugh D. Young and Roger A. Freedman. *University Physics with Modern Physics, 13th Edition*. Pearson Education Limited, Essex, UK, 2015.
[4] W. M. Haynes. *CRC Handbook of Chemistry and Physics, 92nd Edition*. CRC Press, Florida, USA, 2011.
[5] J. L. Martin and S. C. McCutcheon *Hydrodynamics and Transport for Water Quality Modelling*. CRC Press, Florida, USA, 1999.
[6] I. G. Hughes and T. P. A. Hase *Measurements and their Uncertainties*. Oxford University Press, Oxford, UK, 2010.

Appendix

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