

## Supplementary Material

### **Anthony George Klein 1935–2021**

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## Supplementary Material

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## Education

HSC, University High School, Melbourne, Vic., Australia

BEE, University of Melbourne, Vic., Australia.

PhD, University of Melbourne, Vic., Australia.

DSc, University of Melbourne, Vic., Australia..

## Awards

1957 Dixon Scholarship in Electrical Engineering, University of Melbourne, Parkville, Victoria, Australia.

1990 Australian Institute of Physics, Walter Boas Medal.

1999 Order of Australia: Member in the General Division (AM)

2001 Centenary Medal

2016 Australian and New Zealand Optical Society, W. H. (Beattie) Steel Medal

## Professional Organisations

1989-90 Honorary Fellow, Australian Institute of Physics

1994 Fellow Australian Academy of Science

2001 Life Membership, Australian and New Zealand Optical Society

## Australian Academy of Science – Committee History

Formal Name	Period	Position
Regional Group VIC	1/01/2002-31/12/2016	Chairman
Sectional Committee 2 Physics and Astromony (1974)	1/01/2006-30/04/2009	Member
JSPS Invitation and Postdoctoral Fellowships	1/01/2012-30/12/2012	Member
Australia-India Senior Visiting Fellowships	1/01/2012-30/12/2013	Member
JSPS Invitation and Postdoctoral Fellowships 2013-2014	1/01/2013-30/12/2013	Member
Replacement Research Reactor Project	1/08/2004-31/12/2007	Member
Replacement Research Reactor Project	1/01/2008-31/12/2010	Member

Pawsey Medal	1/01/2004-31/12/2004	Member
Lloyd Rees Lecture	1/01/2011-31/12/2013	Member
Pawsey Medal	1/03/2017-31/12/2019	Member
Asia	1/01/2011	Member
Regional Collaborations Programme Round 2	31/01/2019-28/02/2019	Assessor
Australia-India AISRF EMCR Fellowship Committee 2020	11/10/2019-4/11/2019	Assessor
Japan Bilateral Exchange Program 2014-2015	1/01/2013	Member

## List of Publications

### Journal Publications

Klein, A. G. (1958) The Schmitt trigger circuit, *Electronic Engineering*, **30** (359), 46.

Pryor, A. W. and Klein, A. G. (1959) Statistical design basis for fast scaling systems, *Nuclear Instruments & Methods*, **4** (1), 1-4.

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Klein, A. G. (1961) Logarithmic rate meters and period meters - A theoretical study of noise and transient response, *Nuclear Science and Engineering*, **11** (2), 142-153.

Gellie, R. W. and Klein, A. G. (1967) Accurate a.c.-d.c. converter for low frequencies, *Electronic Engineering*, **39** (474), 484.

Klein, A. G., Prager, P., Wagenfeld, H., Ellis, P. J. and Sabine, T. M. (1967) Diffraction of neutrons and x-rays by a vibrating quartz crystal, *Applied Physics Letters*, **10** (10), 293-295.

Klein, A. G., (1970) Simple anticoincidence circuit compatible with i.c. logic, *Electronic Engineering*, **42** (512), 96.

Burrows, R. D., Caro, D. E., Gold, E., Klein, A. G., MacDowell, C. E., Olney, J. L., Opat, G. I., Starr, J., Wignall J. W. G. and Peaslee, D. C. (1970)  $\bar{p}d$  topological cross sections in momentum range 50 – 920 MeV/c, *Australian Journal of Physics*, **23** (5), 819-821.

Allen, K. J. F. and Klein, A. G. (1973) Technique for correction of pulse heights from thick silicon particle detectors, *Nuclear Instruments & Methods*, **108** (2), 309-315.

Caro, D. E., Gold, E., Klein, A. G., MacDowell, C. E., Opat, G. I. and Wignall, J. W. G. (1973) Elastic antiproton-deuteron scattering below 1.0 GeV/c, *Nuclear Physics B*, **52** (1), 239-247.

Caro, D. E., Gold, E., Klein, A. G., MacDowell, C. E., Opat, G. I. and Wignall, J. W. G. (1973) Antiproton-nucleon scattering in deuterium below 1.0 GeV/c, *Nuclear Physics B*, **52** (1), 301-315.

Klein, A. G. (1973) Novel prism for use in scanning systems, *Applied Optics*, **12** (3), 616-617.

Klein, A.G. (1973) Elementary dynamics of spacecraft orbits, *The Australian Physicist*, **10** (3), 43-47.

Klein, A. G. (1974) Current sensor suitable for high frequencies, *Electronic Engineering*, **460** (559), 17.

Caro, D. E., Gold, E., Klein, A. G., MacDowell, C. E., Opat, G. I. and Wignall, J. W. G. (1975) Antiproton-neutron annihilation in flight – test of Orfanidis-Rittenberg statistical model, *Nuclear Physics B*, **90** (2), 221-226.

Klein, A. G. (1975) Positive and negative coefficients of resistance, *American Journal of Physics*, **43** (12), 1100-1101.

Klein, A. G. (1975) Demonstration of Ampere's circuital law using a Rogowski coil, *American Journal of Physics*, **43** (4), 368-370.

Klein, A.G. and Boydell, S. (1975) Experience with TV teaching, *The Australian Physicist*, **12** (11), 151-153.

Klein, A. G. and Opat, G. I. (1975) Observability of  $2\pi$  rotations – proposed experiment, *Physical Review D*, **11** (3), 523-528.

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Klein, A. G. (1977) Polarization flipper for ir laser beams – comment, *Applied Optics*, **16** (6), 526-527.

Klein, A. G. and Martin, L. J. (1977) Fresnel integrals, *American Journal of Physics*, **45** (3), 298-299.

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Kaiser, H., Arif, M., Berliner, R., Clothier, R., Werner, S. A., Cimmino, A., Klein, A. G. and Opat, G. I. (1988) Neutron interferometry investigation of the Aharonov-Casher effect, *Physica B & C*, **151** (1-2), 68-73.

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Kaiser, H., Werner, S. A., Clothier, R., Arif, M., Klein, A. G., Opat, G. I. and Cimmino, A. (1991) Neutron interferometric measurement of the topological Aharonov-Casher effect, *Proceedings of the Twelfth International Conference on Atomic Physics – ICAP-*



12, (Ann Arbor, Michigan) *AIP Conference Proceedings*, **233**, eds. J. C. Zorn and R. R. Lewis, pp 247-268.

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Klein, A. G. (1993) The scalar Aharonov-Bohm effect – an experiment with neutrons, *Quantum Control and Measurement*, H. Ezawa and Y. Murayama (eds.), Elsevier, 237-242.

Allman, B. E., Klein, A. G., Nugent, K. A. and Opat, G. I. (1993) Lloyd's mirage: a variant of Lloyd's mirror, *European Journal of Physics* **14**, 272-276.

Allman, B. E., Cimmino, A., Klein, A. G., Opat, G. I., Kaiser, H. and Werner, S. A. (1993) Observation of the scalar Aharonov-Bohm effect by neutron interferometry, *Physical Review A*, **48** (3), 1799-1807.

Klein, A. G. (1993) On demonstrations of Ampere's law, *American Journal of Physics*, **61** (11), 1045.

Gudkov, V. P., Opat, G. I. and Klein, A. G. (1993) Neutron reflection interferometry – Physical principles of surface-analysis with phase information, *Journal of Physics: Condensed Matter*, **5** (49), 9013-9024.

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