

Neutron Reflectometers - a bibliography

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Background

A short catalogue of neutron reflectometers has been made available on the world wide web for a number of years by Rennie:

<http://www.reflectometry.net/reflect.htm>

The list has given only brief information about sample geometry and the scattering plane, whether polarised beams are available and the modes of operation (monochromatic at a defined wavelength or time-of-flight measurements with a polychromatic beam). The catalogue has also provided links to web pages that give more detailed information about specific instruments. The web pages that are maintained by neutron facilities often provide detailed, updated technical data for the instruments, as well scientific results and information about the procedures for users to apply for access. However information on the internet is often transient.

Journal Literature

A separate valuable source of further information in this area is provided by papers in scientific journals. These often give more detailed descriptions and explain the motivation for particular designs of instruments. The archive of scientific papers also provides information about instruments that have been decommissioned that is not easy to find as web pages are updated or removed. Reading this literature can give a good perspective on the evolution of the design of neutron reflectometers.

The papers listed in this bibliography are restricted to scientific journals rather than internal laboratory reports. Although these papers are widely available in academic libraries to assist access, apart from the usual citations, where possible, the digital object identifier (DOI) has been provided to give hyperlinks to the full text of the papers. This access usually requires a paid subscription. The facilities and instruments are also identified. The list is available sorted either by date or by instrument name.

http://www.reflectometry.net/biblio/Neutron_reflectometer_bibliography_date_sort.pdf

http://www.reflectometry.net/biblio/Neutron_reflectometer_bibliography_instrument_sort.pdf

The papers included in the list are not necessarily comprehensive but rather come from personal reading. However, I will be very pleased to receive information about corrections or suggestions for updates.

Reflectometer Papers

Seq. No.	Instrument	Reference	Digital Source DOI	Year	Source	Country
10	ADAM	R. Siebrecht, A. Schreyer, U. Englisch, U. Pietsch, H. Zabel 'The new reflectometer ADAM at the ILL' <i>Physica B</i> , 241-243 , (1998), 169-171.	http://dx.doi.org/10.1016/S0921-4526(97)00541-3	1998	ILL	France
11	ADAM	A. Schreyer, R. Siebrecht, U. Englisch, U. Pietsch, H. Zabel 'ADAM, the new reflectometer at the ILL' <i>Physica B</i> , 248 , (1998), 349-354.	http://dx.doi.org/10.1016/S0921-4526(98)00263-4	1998	ILL	France
13	AMOR	D. Clemens 'Conceptional design of a flexible neutron reflectometer at 'SINQ' <i>Physica B</i> , 221 , (1996), 507-513.	http://dx.doi.org/10.1016/0921-4526(95)00972-8	1996	SINQ	Switzerland
14	AMOR	D. Clemens, P. Gross, P. Keller, N. Schlumpf, M. Könnecke 'AMOR - the versatile reflectometer at SINQ' <i>Physica B</i> , 276-278 , (2000), 140-141.	http://dx.doi.org/10.1016/S0921-4526(99)01386-1	2000	SINQ	Switzerland
15	AMOR	Mukul Gupta, T. Gutberlet, J. Stahn, P. Keller, D. Clemens 'AMOR - the time-of-flight neutron reflectometer at SINQ/PSI' <i>Pramana Journal of Physics</i> , 63 , (2004), 57-63.	http://dx.doi.org/10.1007/BF02704051	2004	SINQ	Switzerland
81	AMOR	J. Stahn, A. Glavic 'Focusing neutron reflectometry: Implementation and experience on the TOF-reflectometer Amor' <i>Nuclear Instruments and Methods in Physics Research A</i> 821 , (2016), 44-54.	http://dx.doi.org/10.1016/j.nima.2016.03.007	2016	SINQ	Switzerland
22	AND/R	Joseph A. Dura, Donald J. Pierce, Charles F. Majkrzak, Nicholas C. Maliszewskyj, Duncan J. McGillivray, Mathias Lösche, Kevin V. O'Donovan, Mihaela Mihailescu, Ursula Perez-Salas, David L. Worcester, Stephen H. White 'AND/R: Advanced neutron diffractometer/reflectometer for investigation of thin films and multilayers for the life sciences' <i>Review of Scientific Instruments</i> , 77 , (2006), 074301.	http://dx.doi.org/10.1063/1.2219744	2006	NCNR	USA
26	ARISA	N. Torikai, M. Furusaka, H. Matsuoka, Y. Matsushita, M. Shibayama, A. Takahara, M. Takeda, S. Tasaki, H. Yamaoka Instrumental design and performance of a new pulsed-neutron reflectometer (ARISA) at KENS for studying free surfaces <i>Appl. Phys. A</i> 74 suppl., (2002), S264-S266.	http://dx.doi.org/10.1007/s003390101095	2002	KENS	Japan
72	BioRef	M. Strobl, R. Steitz, M. Kreuzer, A. Nawara, F. Mezei, M. Rose, P. Amitesh, M. Grunze, R. Dahint 'BioRef – a time-of-flight neutron reflectometer combined with in-situ infrared spectroscopy at the Helmholtz Centre Berlin' <i>J. Phys.: Conf. Ser.</i> 251 , (2010), 012059.	http://dx.doi.org/10.1088/1742-6596/251/1/012059	2010	BER II	Germany

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31	BioRef	M. Strobl, R. Steitz, M. Kreuzer, M. Rose, H. Herrlich, F. Mezei, M. Grunze, R. Dahint 'BioRef: A versatile time-of-flight reflectometer for soft matter applications at Helmholtz-Zentrum Berlin' <i>Review of Scientific Instruments</i> , 82 , (2011), 055101.	http://dx.doi.org/10.1063/1.3581210	2011	BER II	Germany
84	BioRef	M. Trapp, R. Steitz, M. Kreuzer, M. Strobl, M. Rose, R. Dahint 'BioRef II—Neutron reflectometry with relaxed resolution for fast, kinetic measurements at HZB' <i>Rev. Sci. Instrum.</i> 87 , (2016), 105112.	http://dx.doi.org/10.1063/1.4964294	2016	BER II	Germany
66	BT-7 / NG7	J. F. Ankner, C. F. Majkrzak, S. K. Satija, 'Neutron Reflectivity and Grazing Angle Diffraction' <i>J. Res. NIST</i> , 98 , (1993), 47-58.	http://dx.doi.org/10.6028/jres.098.004	1993	NCNR	USA
52	C3-1-2	T. Ebisawa, S. Tasaki, Y. Otake H. Funahashi, K. Soyama, N. Torikai, Y. Matushita 'The neutron reflectometer (C3-1-2) at the JRR-3M reactor at JAERI' <i>Physica B</i> , 213 & 214 , (1995), 901-903.	http://dx.doi.org/10.1016/0921-4526(95)00318-4	1995	JRR-3	Japan
76	CN REF-V	Jeong-Soo Lee, Jaseung Koo, Ji-Yong So, Tae Ho Kim, Sungkyun Park 'Development of a cold-neutron reflectometer (CN REF-V) at the HANARO' <i>Journal of the Korean Physical Society</i> 67 , (2015), 1574-1582.	http://dx.doi.org/10.3938/jkps.67.1574	2015	HANARO	South Korea
82	CN REF-V	Jeong Soo Lee 'Instrument Resolution of the Vertical-type Cold-neutron Reflectometer at HANARO' <i>Journal of the Korean Physical Society</i> , 68 , (2016), 1099-1108.	http://dx.doi.org/10.3938/jkps.68.1099	2016	HANARO	South Korea
1	CRISP	J. Penfold, R. C. Ward, W. G. Williams 'A time-of-flight neutron reflectometer for surface and interfacial studies' <i>J. Phys. E: Sci. Instrum.</i> 20 , (1987), 1411-1417.	http://dx.doi.org/10.1088/0022-3735/20/11/024	1987	ISIS	UK
2	CRISP	R. Felici, J. Penfold, R. C. Ward, W. G. Williams 'A polarised neutron reflectometer for studying surface magnetism' <i>Applied Physics A</i> , (1988), 45 , 169-174.	http://dx.doi.org/10.1007/BF02565206	1988	ISIS	UK
64	CRISP	V. Nunez, A. T. Boothroyd, J. Reynolds, J. Penfold, S. Langridge, D. G. Bucknall, P. Böni, D. Clemens, M. Senthil Kumar 'Improvements to the polarised-neutron reflectometer CRISP' <i>Physica B</i> , 241-243 , (1998), 148-150.	http://dx.doi.org/10.1016/S0921-4526(97)00535-8	1998	ISIS	UK
7	D17	R. Cubitt, G. Fragneto 'D17: the new reflectometer at the ILL' <i>Appl. Phys. A</i> 74 (Suppl.) (2002), S329-S331.	http://dx.doi.org/10.1007/s003390201611	2002	ILL	France

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Seq. No.	Instrument	Reference	Digital Source DOI	Year	Source	Country
91	D17	Thomas Saerbeck, Robert Cubitt, Andrew Wildes, Giuliana Manzin, Ken H. Andersen, Philipp Gutfreund 'Recent upgrades of the neutron reflectometer D17 at ILL' <i>J. Appl. Cryst.</i> 51 , (2018), 249-256.	http://dx.doi.org/10.1107/S160057671800239X	2018	ILL	France
77	D50	J. Segura-Ruiz, J. Beaucour, B. Giroud, D. Atkins, R. Cubitt 'D50, an innovative ILL prototype for a white beam neutron reflectometer' <i>Neutron News</i> 26 , (2015), 3, 27.	http://dx.doi.org/10.1080/10448632.2015.1057053	2015	ILL	France
86	Diting	Xinxi Li, Chaoqiang Huang, Yan Wang, Bo Chen, Guang'ai Sun, Yaoguang Liu, Jian Gon, Wu Kang, Hangang Liu 'Diting: A polarized time-of-flight neutron reflectometer at CMRR reactor in China' <i>Eur. Phys. J. Plus</i> 131 , (2016), 407.	http://dx.doi.org/10.1140/epjp/i2016-16407-9	2016	CMRR	China
18	EROS	T. D. Doan, F. Ott, A. Menelle, P. Humbert, C. Fermon, I. L. Prejbeanu, U. Rücker 'New evanescent neutron wave diffractometer at LLB' <i>Appl. Phys. A</i> 74 , [Suppl.], S186–S188 (2002)	http://dx.doi.org/10.1007/s003390101088	2002	LLB	France
17	EROS	Alain Menelle 'Upgrade of the time-of-flight reflectometer at LLB' <i>Physica B</i> , 350 , (2004), e767–e769.	http://dx.doi.org/10.1016/j.physb.2004.03.199	2004	LLB	France
19	EROS	F. Cousin, F. Ott, F. Gibert, A. Menelle 'EROS II: A boosted time-of-flight reflectometer for multi-purposes applications at the Laboratoire Léon Brillouin' <i>Eur. Phys. J. Plus</i> , 126 , (2011), 109.	http://dx.doi.org/10.1140/epjp/i2011-11109-6	2011	LLB	France
75	ESS	D. Nekrassov, M. Trapp, K. Lieutenant, J.-F. Moulin, M. Strobl, R. Steitz 'Design of a horizontal neutron reflectometer for the European Spallation Source' <i>Nuclear Instruments and Methods in Physics Research A</i> , 755 , (2014), 85-96.	http://dx.doi.org/10.1016/j.nima.2014.04.003	2014	ESS	Sweden
9	EVA	H. Dosch, K. Al Usta, A. Lied, W. Drexel, J. Peisl 'The evanescent neutron wave diffractometer: On the way to surface sensitive neutron scattering' <i>Review of Scientific Instruments</i> , 63 , (1992), 5533-5542.	http://dx.doi.org/10.1063/1.1143841	1992	ILL	France
8	Figaro	R. A. Campbell, H. P. Wacklin, I. Sutton, R. Cubitt and G. Fragneto 'FIGARO: The new horizontal neutron reflectometer at the ILL' <i>Eur. Phys. J. Plus</i> , 126 , (2011) 107.	http://dx.doi.org/10.1140/epjp/i2011-11107-8	2011	ILL	France
85	Figaro	R. A. Campbell, H. P. Wacklin, I. Sutton, R. Cubitt, G. Fragneto 'Erratum to: FIGARO: The new horizontal neutron reflectometer at the ILL' <i>Eur. Phys. J. Plus</i> 130 , (2015), 220.	http://dx.doi.org/10.1140/epjp/i2015-15220-4	2015	ILL	France

Reflectometer Papers

Seq. No.	Instrument	Reference	Digital Source DOI	Year	Source	Country
67	G2.2	C. Fermon 'Neutron reflectometry with polarization analysis: A theory and a new spectrometer' <i>Physica B</i> , 213 & 214 , (1995), 910-913.	http://dx.doi.org/10.1016/0921-4526(95)00320-9	1995	LLB	France
70	GINA	L. Bottyán, D. G. Merkel, B. Nagy, J. Major 'Neutron Reflectometer with Polarization Option at the Budapest Neutron Centre', <i>Neutron News</i> , 23:1 , (2012), 21-24.	http://dx.doi.org/10.1080/10448632.2012.645693	2012	BNC	Hungary
58	GINA	L. Bottyán, D. G. Merkel, B. Nagy, J. Füzi, Sz. Sajti, L. Deák, G. Endrőczy, A. V. Petrenko, J. Major 'GINA - A polarized neutron reflectometer at the Budapest Neutron Centre' <i>Review of Scientific Instruments</i> , 84 , (2013), 015112.	http://dx.doi.org/10.1063/1.4770129	2013	BNC	Hungary
57	GORIZONT	V. S. Litvin, V. A. Trounov, V. A. Ulyanov, A. P. Boulkine, S. I. Kalinin, A. A. Alekseev, R. A. Sadykov, E. A. Koptelov 'A new time-of-flight neutron reflectometer and SANS instrument GORIZONT at IN-06 spallation neutron source' <i>Journal of Physics: Conference Series</i> , 340 , (2012) 012032.	http://dx.doi.org/10.1088/1742-6596/340/1/012032	2012	IN-06	Russia
56	GRAINS	M. V. Avdeev, V. I. Bodnarchuk, V. V. Lauter-Pasyuk, H. Lauter, V. L. Aksenov, S. P. Yaradaikin, V. A. Ulyanov, V. A. Trounov, S. I. Kalinin 'Project of the new multifunctional reflectometer GRAINS with horizontal sample plane at the IBR-2M pulsed reactor in Dubna' <i>Journal of Physics: Conference Series</i> , 251 , (2010) 012060.	http://dx.doi.org/10.1088/1742-6596/251/1/012060	2010	IBR-2M	Russia
63	Gravity Mirror	Heinz Scheckenhofer and Albert Steyerl 'A "Gravity Diffractometer" for Ultracold-Neutron Optics' <i>Nuclear Instruments and Methods</i> , 179 , (1981), 393-396.	http://dx.doi.org/10.1016/0029-554X(81)90066-5	1981	FRM	Germany
64	H9-A	E. M. Lee, C. F. Majkrzak, M. Elmiger, L. Passell 'The Brookhaven neutron reflection spectrometer' <i>Nuclear Instruments and Methods in Physics Research B</i> , 93 , (1994), 75-81.	http://dx.doi.org/10.1016/0168-583X(94)95459-3	1994	HFBR	USA
35	H9-A	Oh-Sun Kwon, Kwanwoo Shin, Dong-Jin Choi, Kwang Pho Hong, Myung Kook Moon, Sang Jin Cho, Young Hyun Choi, Jeong Soo Lee, Change-Hee Lee 'The HANARO neutron reflectometer with horizontal sample geometry; engineering designs and performance simulation' <i>Thin Solid Films</i> , 515 , (2007), 5707-5711.	http://dx.doi.org/10.1016/j.tsf.2006.12.123	2007	HANARO	South Korea
60	HADAS	U. Rücker, B. Alefeld, W. Bergs, E. Kentzinger, T. Brückel 'The new polarized neutron reflectometer in Jülich' <i>Physica B</i> , 276-278 , (2000) 95-97.	http://dx.doi.org/10.1016/S0921-4526(99)01257-0	2000	FRJ-2 DIDO	Germany

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Seq. No.	Instrument	Reference	Digital Source DOI	Year	Source	Country
88	HERITAGE	S. Mattauch, A. Ioffe, D. Lott, L. Botyán, J. Daillant, M. Markó, A. Menelle, S. Sajti, T. Veres 'HERITAGE: the concept of a giant flux neutron reflectometer for the exploration of 3-d structure of free-liquid and solid interfaces in thin films' <i>Nuclear Instruments and Methods in Physics Research A</i> 841 , (2017), 34-46.	http://dx.doi.org/10.1016/j.nima.2016.09.043	2017	ESS	Sweden
5	INTER	John Webster, Stephen Holt, Robert Dalglish 'INTER the chemical interfaces reflectometer on target station 2 at ISIS' <i>Physica B</i> 385–386 , (2006), 1164–1166.	http://dx.doi.org/10.1016/j.physb.2006.05.400	2006	ISIS	UK
4	INTER, Polref, Offspec	J. R. P. Webster, S. Langridge, R. M. Dalglish, and T. R. Charlton 'Reflectometry techniques on the Second Target Station at ISIS: Methods and science' <i>Eur. Phys. J. Plus</i> , 126 , (2011), 112.	http://dx.doi.org/10.1140/epjp/i2011-11112-y	2011	ISIS	UK
38	Liquids Reflectometer	J. F. Ankner, M. Jansma, E. D. Blakeman, R. L. Kellogg 'The optical design of the SNS liquids reflectometer' <i>Appl. Phys. A</i> , 74 , suppl., (2002), S1610-S1612.	http://dx.doi.org/10.1007/s003390101258	2002	SNS	USA
40	Liquids Reflectometer	J. F. Ankner, X. Tao, C. E. Halbert, J. F. Browning, S. M. Kilbey II, O. A. Swader, M. S. Admun, E. Kharlampieva, and S. A. Sukhishvili, 'The SNS liquids reflectometer' <i>Neutron News</i> , 19 (3), (2008), 14-16.	http://dx.doi.org/10.1080/10448630802210545	2008	SNS	USA
39	Liquids Reflectometer	Piotr A. Zolnierczuk, Bogdan Vacaliuc, Madhan Sundaram, Andre A. Parizzi, Candice E. Halbert, Michael C. Hoffmann, James F. Browning, John Francis Ankner '“Old wine in new wineskins:” Upgrading the liquids reflectometer instrument user control software at the Spallation Neutron Source' <i>Future of Instrumentation International Workshop (FIIW) Proceedings</i> Pages: 4 IEEE (2012).	http://dx.doi.org/10.1109/FIIW.2012.6378322	2012	SNS	USA
41	Magnetism Reflectometer	F. Klose, W.-T. Lee 'Optimization of the SNS magnetism reflectometer neutron-guide optics using Monte Carlo simulations' <i>Appl. Phys. A</i> 74 , (Suppl.), (2002), S1486-S1488.	http://dx.doi.org/10.1007/s003390201798	2002	SNS	USA
42	Magnetism Reflectometer	Valeria Lauter, Hailemariam Ambaye, Richard Goyette, Wai-Tung Hal Lee, Andre Parizzi 'Highlights from the magnetism reflectometer at the SNS' <i>Physica B</i> , 404 , (2009), 2543-2546.	http://dx.doi.org/10.1016/j.physb.2009.06.021	2009	SNS	USA
78	MARIA	Stefan Mattauch, Alexandros Koutsoubas, Sabine Pütter 'MARIA: Magnetic reflectometer with high incident angle' <i>Journal of large-scale research facilities</i> , 1 , (2015), A8.	http://dx.doi.org/10.17815/jlsrf-1-29	2015	FRM II	Germany

Seq. No.	Instrument	Reference	Digital Source DOI	Year	Source	Country
92	MARIA	Stefan Mattauch, Alexandros Koutsioubas, Ulrich Rücker, Denis Korolkov, Vincenzo Fracassi, Jos Daemen, Ralf Schmitz, Klaus Bussmann, Frank Suxdorf, Michael Wagener, Peter Kämmerling, Harald Kleines, Lydia Fleischhauer-Fuß, Manfred Bednareck, Vladimir Ossoviy, Andreas Nebel, Peter Stronciwilk, Simon Staringer, Marko Gödel, Alfred Richter, Harald Kusche, Thomas Kohnke, Alexander Ioffe, Earl Babcock, Zahir Salhi, Thomas Bruckel 'The high-intensity reflectometer of the Jülich Centre for Neutron Science: MARIA' <i>J. Appl. Cryst.</i> 51 , (2018), 646-654.	http://dx.doi.org/10.1107/S1600576718006994	2018	FRM II	Germany
47	MIRA	Robert Georgii, Peter Böni, Marc Janoschek, Christian Schanzer, Shah Valloppilly 'MIRA - A flexible instrument for VCN' <i>Physica B</i> , 397 , (2007) 150-152.	http://dx.doi.org/10.1016/j.physb.2007.02.088	2007	FRM II	Germany
37	MIRROR	W. A. Hamilton, G. S. Smith, G. B. Taylor, B. M. Larkins, L. Porcar 'Current and future capabilities of the neutron reflectometer MIRROR at Oak Ridge National Laboratory's High Flux Isotope Reactor' <i>Physica B</i> , 385-386 , (2006), 1007-1009.	http://dx.doi.org/10.1016/j.physb.2006.05.321	2006	HFIR	USA
74	MIT reflectometer	Chwen-Yuan Ku, Xiao-Lin Zhou 'The MIT Specular and Diffuse Neutron Reflectometer for the Investigation of Surfaces & Interfaces' <i>MRS Proceedings</i> 376 , (1994), 107-112.	http://dx.doi.org/10.1557/PROC-376-107	1994	MIT	USA
33	NERO	D. Solina, D. Lott, U. Tietze, O. Frank, V. Leiner, A. Schreyer 'The new neutron reflectometer NERO' <i>Physica B</i> , 385-386 , (2006), 1167-1169.	http://dx.doi.org/10.1016/j.physb.2006.05.401	2006	GKSS	Germany
62	NR	Guangcui Yuan, Hongxia Zhang, He Cheng, Charles C. Han, Tianfu Li, Linfeng He, Yun Tao Liu, Dongfeng Chen 'A neutron reflectometer with horizontal sample geometry at CARR' <i>Nuclear Instruments and Methods in Physics Research A</i> , 656 , (2011), 65-68.	http://dx.doi.org/10.1016/j.nima.2011.08.003	2011	CARR	China
69	NR-4M	N. K. Pleshanov, L. A. Axel'rod, V. N. Zabenkin, V. G. Syromyatnikov, V. A. Ul'yanov 'Neutron reflectometry with vector polarization analysis: First steps' <i>Journal of Surface Investigation. X-ray, Synchrotron and Neutron Techniques</i> 2 , (2008), 846-855.	http://dx.doi.org/10.1134/S1027451008060049	2008	Gatchina	Russia
80	NREX	Yury Khaydukov, Olaf Soltwedel, Thomas Keller 'NREX: Neutron reflectometer with X-ray option' <i>Journal of large-scale research facilities</i> , 1 , (2015), A38.	http://dx.doi.org/10.17815/jlsrf-1-30	2015	FRM II	Germany

Seq. No.	Instrument	Reference	Digital Source DOI	Year	Source	Country
6	Offspec	R. M. Dalgliesh, S. Langridge, J. Plomp, V. O. de Haan, A. A. van Well 'Offspec, the ISIS spin-echo reflectometer' <i>Physica B</i> , 406 , (2011), 2346–2349.	http://dx.doi.org/10.1016/j.physb.2010.11.031	2011	ISIS	UK
73	Offspec	Andrew J. Parnell, Adam Hobson, Robert M. Dalgliesh, Richard A. L. Jones, Alan D. F. Dunbar, 'Using neutron spin echo resolved grazing incidence scattering to investigate organic solar cell materials.' <i>Journal of Visualized Experiments</i> Issue: 83 , (2014), e51129.	http://dx.doi.org/10.3791/51129	2014	ISIS	UK
87	Optics Facility	W. C. Dickinson, L. Passell, O. Halpern 'Studies of the Optics of Neutrons. I. Measurement of the Neutron-Proton Coherent Scattering Amplitude by Mirror Reflection' <i>Phys. Rev.</i> 126 , (1962), 632-642.	http://dx.doi.org/10.1103/PhysRev.126.632	1962	Lawrence Radiation Laboratory	USA
44	Platypus	M. James, A. Nelson, S. A. Holt, T. Saerbeck, W. A. Hamilton, F. Klose 'The multipurpose time-of-flight neutron reflectometer Platypus at Australia's OPAL reactor' <i>Nuclear Instruments and Methods in Physics Research</i> , A632 , (2011), 112–123.	http://dx.doi.org/10.1016/j.nima.2010.12.075	2011	OPAL	Australia
45	Platypus	T. Saerbeck, F. Klose, A. P. Le Brun, J. Füzi, A. Brule, A. Nelson, S. A. Holt, M. James 'Polarization "Down Under": The polarized time-of-flight neutron reflectometer PLATYPUS' <i>Review of Scientific Instruments</i> , 83 , (2012), 081301.	http://dx.doi.org/10.1063/1.4738579	2012	OPAL	Australia
32	PNR	C. Bittorf, M. Stamm, R. Kampmann 'PNR — a novel neutron reflectometer with spin analysis of the reflected neutrons' <i>Physica B</i> , 234-236 , (1997), 1168-1170.	http://dx.doi.org/10.1016/S0921-4526(97)00206-8	1997	GKSS	Germany
69	Polarised Reflectometer	L. Cser, J. Füzi, L. Riecsánszky, Gy. Török 'Polarized neutron reflectometer at the Budapest Research Reactor', <i>Appl. Phys. A</i> , 74 , suppl., (2002), S213–S214.	http://dx.doi.org/10.1007/s003390201540	2002	BNC	Hungary
50	Polarized Reflectometer	S. Basu and S. Singh 'A new polarized neutron reflectometer at Dhruva for specular and off-specular neutron reflectivity studies' <i>Journal of Neutron Research</i> , 14 , (2006), 109-120.	http://dx.doi.org/10.1080/10238160500475301	2006	Dhruva	India
51	Polarized Reflectometer	Saibal Basu 'Specular neutron reflectivity and beyond' <i>Pramana Journal of Physics</i> , 63 , (2008), 777-784.	http://dx.doi.org/10.1007/BF02705003	2008	Dhruva	India
25	PORE	Takeda Masayasu, Endoh Yasuo 'A new pulsed polarized neutron reflectometer, PORE, at KENS' <i>Physica B</i> , 267-268 , (1999), 185-189.	http://dx.doi.org/10.1016/S0921-4526(99)00058-7	1999	KENS	Japan

Seq. No.	Instrument	Reference	Digital Source DOI	Year	Source	Country
23	POSY	G. P. Felcher, R. O. Hilleke, R. K. Crawford, J. Haumann, R. Kleb, G. Ostrowski 'Polarized neutron reflectometer: A new instrument to measure magnetic depth profiles' <i>Review of Scientific Instruments</i> , 58 , (1987), 609-619.	http://dx.doi.org/10.1063/1.1139225	1987	IPNS	USA
24	POSY II	Alamgir Karim, B. H. Arendt, Rick Goyette, Y. Y. Huang, R. Kleband, G. P. Felcher 'An automated neutron reflectometer (POSY II) at the Intense Pulsed Neutron Source' <i>Physica B</i> , 173 (1991), 17-24.	http://dx.doi.org/10.1016/0921-4526(91)90030-1	1991	IPNS	USA
20	PRISM	C. Fermon, F. Ott, G. Legoff, H. Glättli, V. Wintenberger 'Polarized reflectometer for the investigation of surface magnetism, the new polarized neutron reflectometer with polarization analysis at the Laboratoire Léon Brillouin' <i>Review of Scientific Instruments</i> , 71 , (2000), 3797-3800.	http://dx.doi.org/10.1063/1.1310342	2000	LLB	France
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Seq. No.	Instrument	Reference	Digital Source DOI	Year	Source	Country
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