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UNDER A CONTRIBUTION FROM THE
NATIONAL RESEARCH COUNCIL OF CANADA

DECEMBER 2003

The contributions on individual experiments in this report are outlines intended to demonstrate the extent of scientific activity at TRIUMF during the past year. The outlines are not publications and often contain preliminary results not intended, or not yet ready, for publication. Material from these reports should not be reproduced or quoted without permission from the authors.

EXPERIMENT PROPOSALS

The following lists experiment proposals received up to the end of 2002 (missing numbers cover proposals that have been withdrawn or replaced by later versions, rejected, or combined with another proposal). Experiments 1–699 are omitted from this listing (except for those reporting results in this Annual Report). Please refer to the 1999 Annual Report or see <http://www.triumf.ca/annrep/experiments.html> for a full listing of these earlier experiments. Page numbers are given for those experiments which are included in this Annual Report.

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| 702. Measurement of kaon-nucleon elastic scattering at 16 MeV [active], G.A. Beer, P. Knowles, G.R. Mason, A. Olin, L.P. Robertson (<i>U. Victoria</i>), P. Amaudruz, D.R. Gill, G. Smith, S. Yen (<i>TRIUMF</i>), L. Lee (<i>U. Manitoba</i>), G. Tagliente (<i>UBC</i>) | |
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| 704. Charge symmetry breaking in $np \rightarrow d\pi^0$ close to threshold [completed data-taking], R. Abegg*, P.W. Green, D.A. Hutcheon (<i>TRIUMF-U. Alberta</i>), L.G. Greeniaus (<i>U. Alberta-TRIUMF</i>), R.W. Finlay, A.K. Opper, S.D. Reitzner (<i>Ohio U.</i>), E. Korkmaz, T.A. Porcelli (<i>UNBC</i>), J.A. Niskanen (<i>U. Helsinki</i>), P. Walden (<i>TRIUMF-UBC</i>), S. Yen (<i>TRIUMF</i>), C.A. Davis (<i>TRIUMF-U. Manitoba</i>), D.V. Jordan (<i>Ohio U.-U. Alberta</i>), E. Auld (<i>UBC</i>) | 32 |
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710. Dynamics of muonium in Ge and GaAs [completed], R.L. Lichti (*Texas Tech. U.*), S.F.J. Cox (*Rutherford Appleton Lab*), R.F. Kiefl (*UBC*), K.H. Chow (*Lehigh U.*), T.L. Estle (*Rice U.*), B. Hitti (*TRIUMF*), E.A. Davis (*Leicester U.*), C.R. Schwab (*CNRS, Strasbourg*)
712. μSR study of superconducting spin glasses [completed], V. McMullen, D.R. Noakes, C.E. Stronach (*Virginia State U.*), E.J. Ansaldò (*U. Saskatchewan*), J.H. Brewer (*UBC*), G. Cao, J.E. Crow (*NHMFL*), S. McCall (*Florida State U.-NHMFL*)
713. Muonium chemistry in supercritical water [completed], B. Addison-Jones, J.-C. Brodovitch, K. Ghandi, I. McKenzie, P. Percival (*SFU*), J. Schüth (*U. Bonn*)
714. Atomic PNC in francium: preparations [inactive], J.A. Behr, L. Buchmann, M. Dombisky, P. Jackson, C.D.P. Levy (*TRIUMF*), J.M. D’Auria, P. Dubé, A. Gorelov, D. Melconian, T. Swanson, M. Trinczek (*SFU*), O. Häusser (*SFU-TRIUMF*), U. Giesen (*U. Alberta*), I. Kelson, A.I. Yavin (*Tel Aviv U.*), J. Deutsch (*U. Catholique de Louvain*), J. Dilling (*SFU-Heidelberg*)
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716. Complete beta-delayed particle emission study of ^{31}Ar [deferred], J. Cerny, D.M. Moltz, T. Ognibene, M.W. Rowe, R.J. Tighe (*Lawrence Berkeley Lab*), L. Buchmann (*TRIUMF*), J. D’Auria (*SFU*), M. Dombisky (*SFU-U. Alberta*), G. Roy (*U. Alberta*)
717. Muon hyperfine transition rates in light nuclei [completed], J.H. Brewer, E. Gete, M.C. Fujiwara, J. Lange, D.F. Measday, B.A. Moftah, M.A. Saliba, T. Stocki (*UBC*), T.P. Gorringer (*U. Kentucky*)
718. Superconductivity and magnetism in quaternary boron carbides [completed], A. Keren, G.M. Luke, Y.J. Uemura, W.D. Wu (*Columbia U.*), K. Kojima (*Columbia U.-U. Tokyo*), S. Uchida (*U. Tokyo*)
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726. Beta-delayed proton and γ -decay of ^{65}Se , ^{69}Kr and ^{73}Sr [active], D. Anthony, J. D'Auria, M. Trinczek (*SFU*), R.E. Azuma, J.D. King (*U. Toronto*), L. Buchmann, K.P. Jackson, J. Vincent (*TRIUMF*), M. Domsbys (*SFU-U. Alberta*), U. Giesen (*TRIUMF-U. Alberta*), J. Görres, H. Schatz, M. Wiescher (*U. Notre Dame*), C. Iliadis (*TRIUMF-U. Toronto*), G. Roy (*U. Alberta*)
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747. μ SR study of re-entrant spin glasses a-FeMn, AuFe, and Fe₇₀Al₃₀ [completed], I.A. Campbell (*U. Paris Sud Orsay*), S. Dunsiger, R.F. Kiefl (*UBC*), M.J.P. Gingras (*TRIUMF*), M. Hennion, I. Mirebeau (*Saclay, LLB*), K. Kojima, G.M. Luke, B. Nachumi, Y.J. Uemura, W.D. Wu (*Columbia U.*)
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751. Tests in preparation for μ SR measurements of off-axis internal magnetic fields in anisotropic superconductors [active], E. Csomortani, W.J. Kossler, X. Wan (*Coll. of William & Mary*), D.R. Harshman (*Physikon Research Inc.*), A. Greer (*Gonzaga U.*), E. Koster, D.L. Williams (*UBC*), C.E. Stronach (*Virginia State U.*)
752. Muonium centres in Si and GaAs [completed], K.H. Chow (*Oxford U.*), S.F.J. Cox (*Rutherford Appleton Lab*), E.A. Davis (*Leicester U.*), S. Dunsiger, R.F. Kiefl, W.A. MacFarlane (*UBC*), T.L. Estle (*Rice U.*), B. Hitti (*TRIUMF*), R.L. Lichti (*Texas Tech. U.*), C. Schwab (*CRN Strasbourg*)
753. Studies of magnetic correlations in planar oxides [completed], K. Kojima (*Columbia U.-U. Tokyo*), M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), B.J. Sternlieb (*Brookhaven Nat. Lab*), S. Uchida (*U. Tokyo*)
754. A search for the muonium substituted hydroxyl radical [deferred], T.A. Claxton, G. Marston (*Leicester U.*), S.F.J. Cox (*Rutherford Appleton Lab*), D. Arseneau, D. Fleming, M. Senba, P. Wassell (*UBC*), J.-C. Brodovitch, P.W. Percival (*SFU*)
755. Muonium formation in Zn-spinels [deferred], G.M. Kalvius, A. Kratzer, W. Potzel (*Tech. U. Munich*), R. Wäppling (*U. Uppsala*), D.R. Noakes (*Virginia State U.*), S.R. Kreitzman (*TRIUMF*), A. Martin (*U. Jena*), M.K. Krause (*U. Leipzig*)
756. Mu+NO spin relaxation: electron exchange or paramagnetism? [deferred], D.G. Fleming, J.J. Pan, M. Senba, M. Shelley (*UBC*), D.J. Arseneau (*TRIUMF*), E. Roduner (*U. Zürich*)
757. Study of muon dynamics in ferroelectric materials and proton ionic conductors – comparison with proton dynamics [completed], W.K. Dawson, K. Nishiyama, S. Ohira, K. Shimomura (*U. Tokyo*), K. Nagamine (*U. Tokyo-RIKEN*), S. Ikeda (*KEK*), S. Shin (*U. Tokyo-ISSP*), N. Sata (*Tohoku U.*)
758. Electronic structure of muonium and muonium-lithium complexes in graphite and related compounds [completed], J. Brewer, J. Chakhalian, S. Dunsiger, R.F. Kiefl, W.A. MacFarlane, R. Miller, J. Sonier (*UBC*), J. Dahn (*Dalhousie U.*), J. Fischer (*U. Pennsylvania*), B. Hitti, S.R. Kreitzman (*TRIUMF*)
759. Study of the isotropic hyperfine coupling constant of muonium at high temperature and under uniaxial pressure [completed], W.K. Dawson, K. Nishiyama, S. Ohira, K. Shimomura (*U. Tokyo*), K. Nagamine (*U. Tokyo-RIKEN*), T.P. Das (*U. New York, Albany*)
761. Parity violation in $p-p$ scattering at 450 MeV [deferred], J. Birchall, C.A. Davis, L. Lee, S.A. Page, W.D. Ramsay, A.W. Rauf, G. Rutledge, W.T.H. van Oers (*U. Manitoba*), R. Helmer, R. Laxdal, C.D.P. Levy (*TRIUMF*), P.W. Green, G. Roy, G.M. Stinson (*U. Alberta*), N.A. Titov, S. Zadorozhny, A.N. Zelenski (*INR, Moscow*), J.D. Bowman, R.E. Mischke, S. Penttila, W.S. Wilburn (*Los Alamos Nat. Lab*), E. Korkmaz, (*UNBC*), M. Simonius (*ETH Zürich*), J. Bisplinghoff, P.D. Eversheim, F. Hinterberger (*U. Bonn*), W. Kretschmer, G. Morgenroth (*U. Erlangen*), H. Schieck (*U. Cologne*), P. von Rossen (*KFA Jülich*)
762. Gamow-Teller and spin-flip dipole strengths near $A=90$ [completed data-taking], W.P. Alford (*U. Western Ontario*), D.P. Beat-ty, H.T. Fortune, P.P. Hui, R.B. Ivie, D. Koltenuk, J. Yu (*U. Pennsylvania*), A. Ling, S. Yen (*TRIUMF*), S. El-Kateb (*King Fahd U.*)
763. Muon cooling and acceleration in an undulating crystal channel [deferred], S.A. Bogacz, D.B. Cline, D.A. Sanders (*UCLA*), L.M. Cremaldi, B. Denardo, Q. Jie, D.J. Summers (*U. Mississippi-Oxford*), G.M. Marshall (*TRIUMF*)

764. Calibration of a segmented neutron detector [completed], E. Korkmaz, G. O’Rielly (*UNBC*), D.A. Hutcheon (*TRIUMF*), A.K. Opper (*U. Alberta*), G. Feldman, N.R. Kolb (*U. Saskatchewan*)
766. The ortho-para transition rate in muonic molecular hydrogen [completed data-taking], D.S. Armstrong, J.H.D. Clark, P. King (*Coll. of William & Mary*), T.P. Gorringer, S. Tripathi, P.A. Żolnierczuk (*U. Kentucky*), M.D. Hasinoff, T. Stocki (*UBC*), D.H. Wright (*TRIUMF*)
767. Direct measurement of sticking in muon catalyzed $d - t$ fusion [inactive], J.M. Bailey (*Chester Technology, UK*), G.A. Beer, M. Maier, G.R. Mason, T.A. Porcelli (*U. Victoria*), K.M. Crowe, P. Kammel (*U. California, Berkeley-LBL*), M.C. Fujiwara, E. Gete, T.J. Stocki (*UBC*), T.M. Huber (*Gustavus Adolphus Coll.*), S.K. Kim (*Jeonbuk Nat. U.*), A.R. Kunselman (*U. Wyoming*), G.M. Marshall, A. Olin (*TRIUMF*), C.J. Martoff (*Temple U.*), V.S. Melezhik (*JINR, Dubna*), F. Mulhauser (*U. Fribourg*), C. Petitjean (*PSI*), J. Zmeskal (*IMEP Vienna*)
768. Generalized Fulde-Ferrell-Larkin-Ovchinnikov state in heavy fermion and intermediate valence systems [active], J. Akimitsu, K. Oishi, T. Muranaka (*Aoyama Gakuin U.*), W. Higemoto, R. Kadono, A. Koda (*KEK-IMSS*), M. Nohara, H. Suzuki, H. Takagi (*U. Tokyo*), R.F. Kiefl, R.I. Miller, A.N. Price (*UBC-TRIUMF*), J.E. Sonier (*SFU*)
769. Effects of uniaxial stress on muonium in semiconductors [completed], K.H. Chow (*Oxford*), B. Hitti (*TRIUMF*), R.F. Kiefl (*UBC*), T.L. Estle (*Rice U.*), R. Lichti (*Texas Tech. U.*)
770. μ SR studies of organic conductors: (BEDT-TTF)₂-X and (TMTTF)₂Br [completed], K. Kojima, M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), P.M. Chaikin (*Princeton U.*), G. Saito (*Kyoto U.*)
771. μ SR studies of geometrically frustrated S = 1/2 spin systems [completed], K. Kojima, M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), M.J.P. Gingras (*TRIUMF*), S. Dunsiger, R.F. Kiefl (*UBC*), D.C. Johnston, S. Kondo (*Iowa State U.*), S. Uchida (*U. Tokyo*), R.J. Cava (*AT&T Bell Labs*)
772. Search for the $\Delta - \Delta$ dibaryon [inactive], R. Abegg*, C.A. Miller, P. Walden, S. Yen (*TRIUMF*), R. Bent (*Indiana U.*), T.Y. Chen, F. Wang, C.H. Ye (*Nanjing U.*), W. Falk (*U. Manitoba*), D. Frekers, M. Hartig (*U. Muenster*), T. Goldman (*Los Alamos Nat. Lab*), M. Heyrat, C.W. Wong (*UCLA*), G. Jones (*UBC*), E. Korkmaz, G. O’Rielly (*UNBC*), C. Rangacharyulu (*U. Saskatchewan*), I. Strakovsky (*Virginia Tech. Inst.*), Z.X. Sun, J.C. Xu (*Inst. Atomic Energy, China*), T. Walton (*Cariboo U. Coll.*)
773. Muon-electron interaction in n -type silicon [completed], D. Arseneau, B. Hitti, S.R. Kreitzman (*TRIUMF*), J.H. Brewer, R.F. Kiefl, G. Morris (*UBC*), K. Chow (*Oxford U.*), S.F.J. Cox (*Rutherford Appleton Lab*), D.G. Eshchenko (*INR, Moscow*), T.L. Estle (*Rice U.*), R. Lichti (*Texas Tech. U.*), V.G. Storchak, (*Kurchatov Inst.*)
774. Muonium dynamics in GaAs studied by rf and μ -wave μ SR [active], B. Hitti, S.R. Kreitzman (*TRIUMF*), T.L. Estle (*Rice U.*), R. Lichti (*Texas Tech. U.*)
775. Electron transport in insulators, semiconductors and magnetic materials [active], J.H. Brewer, A. Izadi, D.M.C. Liu, K.M. Nichol, S. Sivanandam, A.T. Warkentin (*UBC*), G.D. Morris (*TRIUMF*), V.G. Storchak (*Kurchatov Inst.*), D.G. Eshchenko (*INR, Moscow*), J.D. Brewer (*SFU*)
776. Rare earth materials with disordered spin structures [completed], J.H. Brewer (*UBC*), K. Fukamichi (*Tohoku U.*), G.M. Kalvius (*Tech. U. Munich*), D.R. Noakes, C.E. Stronach (*Virginia State U.*), R. Wäppling (*Uppsala U.*)
777. Vortex state of s -wave superconductors investigated by muon spin rotation [active], J.C. Chakhalian, K. Chow, R. Miller, A.N. Price (*UBC*), J.H. Brewer, R.F. Kiefl (*UBC-TRIUMF*), G.M. Luke (*McMaster U.*), J.E. Sonier (*SFU*)
778. $\pi^\pm p$ differential cross sections in the Coulomb-nuclear interference region [completed data-taking], P. Amaudruz, D. Ottewell, (*TRIUMF*), P. Camerini, E. Fragiaco, N. Grion, S. Piano, R. Rui (*INFI Trieste-U. Trieste*), K. Babcock, E. Mathie, H. Xu, D.M. Yeomans (*U. Regina*), G. Hofman, M.M. Pavan, K.J. Raywood, R. Tacik (*Regina-TRIUMF*), J. Breitschopf, H. Denz, R. Meier, F. von Wrochem, G. Wagner (*U. Tübingen*), G. Moloney, M. Sevier (*U. Melbourne*), J. Brack, J. Patterson, R. Ristinen (*U. Colorado*), E. Gibson (*California State U., Sacramento*), O. Patarakin (*Kurchatov Inst.*), G. Smith (*Jefferson Lab*)
779. Accelerator mass spectrometry experiments at ISAC [inactive], S. Calvert, A. Glass, R.R. Johnson, T. Petersen (*UBC*), Z. Gelbart, D. Ottewell (*TRIUMF*), R. Schubank (*unaffiliated*), C.S. Wong (*Inst. of Ocean Sciences*), J. Clague (*Geological Survey Canada*), M. Paul (*Hebrew U. Jerusalem*)
780. Deeply bound pionic states through $^{208}\text{Pb}(p, ^3\text{He})^{206}\text{Pb} \otimes \pi^-$ [completed], D. Frekers, W. Garske, K. Grewer, M. Hartig, H. Wörtche (*U. Muenster*), H. Machner (*KFA, Jülich*), D. Hutcheon, P. Walden, S. Yen (*TRIUMF*), A. Opper (*U. Ohio*)

781. Investigations of the $\pi\pi$ invariant mass distributions of nuclear (π^+ , $\pi^-\pi^+$) reactions with the CHAOS detector [completed data-taking], J. Clark, G. Moloney, M.E. Sevier (*U. Melbourne*), L. Felawka, G. Hofman, D.F. Ottewell, K. Raywood, G.R. Smith (*TRIUMF*), R. Meier (*U. Tübingen*), P. Camerini, E. Fragiaco, R. Rui (*INFN Trieste-U. Trieste*), N. Grion, S. Piano (*INFN, Trieste*), E.L. Mathie, R. Tacik, (*U. Regina*), E.F. Gibson (*Cal. State U., Sacramento*)
782. Non-fermi-liquid behaviour and other novel phenomena in heavy-fermion alloys [active], D.E. MacLaughlin (*U. California, Riverside*), R.H. Heffner, G.D. Morris (*Los Alamos Nat. Lab*), Y.J. Uemura (*Columbia U.*), M.B. Maple (*U. California, San Diego*), O.O. Bernal (*Cal. State U., Los Angeles*), G.M. Luke (*McMaster U.*), J.E. Sonier (*SFU*), B. Andraka, G.R. Stewart (*U. Florida*)
783. Paramagnetic frequency shifts in unconventional superconductors [active], R.H. Heffner, G.D. Morris (*Los Alamos Nat. Lab*), D.E. MacLaughlin (*U. California, Riverside*), G.J. Nieuwenhuys (*U. Leiden*), O.O. Bernal (*Cal. State U., Los Angeles*), J.E. Sonier (*SFU*)
784. μ SR studies of spin singlet states in oxides [active], A. Fukaya, I. Gat, M. Larkin, A. Savici, Y.J. Uemura (*Columbia U.*), T. Ito (*Columbia U.-ETL*), H. Kageyama, K. Ueda, Y. Ueda (*U. Tokyo*), P.P. Kyriakou, G.M. Luke, M.T. Rovers (*McMaster U.*)
785. Pion double charge exchange on ^3He with CHAOS [completed data-taking], R. Tacik (*TRIUMF-U. Regina*), E.L. Mathie, M. Yeomans (*U. Regina*), H. Clement, J. Graeter, R. Meier, J. Petzold, G.J. Wagner (*U. Tübingen*), E. Friedman (*Hebrew U. Jerusalem*), N. Grion (*INFN Trieste*), P. Camerini, E. Fragiaco, R. Rui (*U. Trieste*), L. Felawka, D. Ottewell, K. Raywood, G.R. Smith (*TRIUMF*), G. Hofman, B. Jamieson, G. Tagliente (*UBC*), J. Clark, G. Molony, M.E. Sevier (*U. Melbourne*), E. Gibson (*California State U. Sacramento*), H. Staudenmeyer (*U. Karlsruhe*), S. Filippov, Y. Gavrilov, T. Karavicheva (*Moscow Meson Factory*)
786. Low energy structures in the β -delayed particle decays of ^9C , ^{12}N and ^{17}Ne [completed data-taking], N. Bateman (*TRIUMF-SFU-U. Toronto*), L. Buchmann, K.P. Jackson, T. Shoppa (*TRIUMF*), J. Chow, J.D. King, C. Mortin (*U. Toronto*), T. Davison, A. Ostrowski, A. Shotter (*U. Edinburgh*), J. D'Auria (*SFU*), E. Gete, D. Measday (*UBC*), U. Giesen (*U. Alberta*)
788. Nuclear and atomic physics with the CPT spectrometer [inactive], B. Barber, K.S. Sharma (*U. Manitoba*), X. Feng (*U. Manitoba-McGill U.*), F. Buchinger, J. Crawford, S. Gulick, J. Lee, B. Moore (*McGill U.*), E. Hagberg, J. Hardy, V. Koslowsky, G. Savard (*Chalk River Nuclear Lab*)
789. μ SR studies of magnetic fluctuations in hydronium jarosites, model Kagomé antiferromagnets [completed], A. Harrison, A.S. Wills (*U. Edinburgh*), Y. Fudamoto, K. Kojima, M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), T. Mason (*U. Toronto*)
790. μ SR studies of stripe order in $\text{La}_{1.6-x}\text{Sr}_x\text{Nd}_{0.4}\text{CuO}_4$ modified cuprate superconductors [completed], Y. Fudamoto, K. Kojima, M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), M. Crawford (*Du Pont*), A. Moodenbaugh (*Brookhaven Nat. Lab*), S. Uchida (*U. Tokyo*)
791. Electronic structure and dynamics of charged muonium and muonium-dopant centers in semiconductors [active], K.H. Chow (*Oxford U.*), R.F. Kiefl (*UBC*), B. Hitti (*TRIUMF*), T.L. Estle (*Rice U.*), R. Lichti (*Texas Tech. U.*), S.F.J. Cox (*Rutherford Appleton Lab*), C. Schwab (*CRN, Strasbourg*)
792. Muonium in III-V semiconductors: identification of states and transitions [completed], K.H. Chow (*Oxford U.*), S.F.J. Cox (*Rutherford Appleton Lab*), B. Hitti (*TRIUMF*), T.L. Estle (*Rice U.*), R.L. Lichti (*Texas Tech. U.*), C. Schwab (*CRN, Strasbourg*)
793. Production of an intense ^{15}O beam for ISAC [completed], J. D'Auria, R. Lange (*SFU*), M. Domsbky, T. Ruth, J. Vincent (*TRIUMF*), K. Carter (*Oak Ridge Nat. Lab*), B. Zhuikov (*INR, Moscow*)
794. μ^+ SR study on the magnetic properties of LaCoO_3 and $\text{La}_{1-x}\text{Sr}_x\text{CoO}_3$ [completed], V.V. Krishnamurthy, I. Watanabe (*RIKEN*), K. Asai, N. Yamada (*U. Electro-communications*), K. Nagamine (*U. Tokyo-RIKEN*)
795. μ SR study on non fermi liquid behaviour [completed], Y. Miyako, Y. Yamamoto (*Osaka U.*), S. Murayama (*Muroran Inst. Tech.*), K. Nagamine (*U. Tokyo*), K. Nishiyama (*U. Tokyo-RIKEN*)
796. μ SR studies in ionic crystals doped with either colour centres or impurity [deferred], Y. Miyake, K. Nagamine, K. Nishiyama, K. Shimomura (*U. Tokyo*), A. Matsusita (*RIKEN*)
797. Magnetic correlations in the ternary equiatomic Ce compounds CeT_2Sn [completed], G. Grosse, G.M. Kalvius A. Kratzer (*Tech. U. Munich*), R. Wäppling (*U. Uppsala*), T. Takabatake (*Hiroshima U.*), D.R. Noakes, C.R. Stronach (*Virginia State U.*), Y. Echizen (*Hiroshima U.*), H. Nakotte (*New Mexico State U.*), H.v. Löhneysen (*U. Karlsruhe*)
798. μ SR studies on the competition of RKKY exchange and Kondo effect in CeT_2X_2 compounds (T=transition metal, X=Si,Ge) [completed], H.-H. Klauss, W. Kopmann, F.J. Litterst, W. Wagener, H. Walf (*Tech. U. Braunschweig*), E. Baggio Saitovitch, M.B. Fontes (*CBPF Rio de Janeiro*), A. Krimmel, A. Loidl (*U. Augsburg*)

799. Hyperfine structure and site determination of (μ^- O) system in LaSuCuO high T_c superconductors [completed], H. Kojima, I. Tanaka, E. Torikai (*Yamanashi U.*), K. Nishiyama (*U. Tokyo-RIKEN*), K. Nagamine, K. Shimomura (*U. Tokyo*), I. Watanabe (*RIKEN*), T.P. Das (*State U. New York*)
801. Studies of multi-phonon states via β -decay [completed data-taking], C.J. Barton, M.A. Caprio, R.F. Casten, N.V. Zamfir (*Yale U.*), D.S. Brenner (*Clark U.*), G.C. Ball, K.P. Jackson (*TRIUMF*)
802. Superdeformation and smooth band termination on and near the $N = Z$ line: Part 1 ^{60}Zn [active], J.A. Cameron, S. Flibotte, D.S. Haslip, J. Nieminen, C. Svensson, J.C. Waddington, J.N. Wilson (*McMaster U.*), G. Ball (*TRIUMF*), A. Galindo-Uribarri, D.C. Radford (*Oak Ridge Nat. Lab*), D. Ward (*Lawrence Berkeley Nat. Lab*)
803. Experimental studies of interaction and properties of neutron-rich nuclei at ISAC [inactive], A.S. Iljinov, A.V. Klyachko, E.S. Konobeevsky, M.V. Morodovskoy, M.A. Prohvatilov, A.I. Reshetin, Yu.V. Ryabov, K.A. Shileev, V.A. Simonov, V.M. Skorkin, S.V. Zuyev (*INR, Moscow*)
804. Muonium in gallium nitride [active], B.A. Bailey, R.L. Lichti (*Texas Tech. U.*), K.H. Chow (*U. Alberta*), B. Hitti (*TRIUMF*), S.F.J. Cox (*Rutherford Appleton Lab*), E.A. Davis (*Leicester U.*)
805. A study of the $^{13}\text{N}(p, \gamma)^{14}\text{O}$ reaction with a ^{13}N beam [active], R.E. Azuma, J. Chow, J.D. King, A.C. Morton (*U. Toronto*), N. Bateman (*TRIUMF-Toronto*), L. Buchmann, K.P. Jackson, T. Shoppa (*TRIUMF*), J.M. D'Auria (*SFU*), U. Giesen (*SFU-TRIUMF*), G. Roy (*U. Alberta*), W. Galster (*U. Catholique de Louvain*), A.C. Shotter (*U. Edinburgh*), R.N. Boyd (*Ohio State U.*), U. Greife, C. Rolfs, F. Strieder, H.-P. Trautvetter (*Ruhr U. Bochum*)
806. Excitation of high-spin isomeric states and compound nucleus formation by intermediate energy protons and stopped pions [completed data-taking], A.S. Iljinov, V.M. Kokhanyuk, B.L. Zhuikov (*INR, Moscow*), I. Liu, J. Vincent, A.Z. Zyuzin (*TRIUMF*)
808. Spin glass order in magnets frustrated by competing ferro- and antiferromagnetic exchange [completed], G.M. Kalvius, A. Kratzer, E. Schreier (*Techn. U. Munich*), R. Wäppling (*U. Uppsala*), D.R. Noakes (*Virginia State U.*), J. Gal (*Beer Sheva U.*), W. Schäfer (*Bonn U.*)
809. Quantum diffusion of muonium in crystals with orientational degrees of freedom [completed], D. Arseneau, B. Hitti, S.R. Kreitzman (*TRIUMF*), J.H. Brewer, A. Izadi, G.D. Morris (*UBC*), D.G. Eshchenko (*INR, Moscow*), V.G. Storchak (*Kurchatov Inst.*), J.D. Brewer (*SFU*)
810. First direct study of the $^{23}\text{Mg}(p, \gamma)^{24}\text{Al}$ reaction with a recoil mass separator (DRAGON) [active], N.P.T. Bateman, J.M. D'Auria, D. Hunter, R. Korteling (*SFU*), R.N. Boyd (*Ohio State U.*), L. Buchmann, R. Helmer, D. Hutcheon, K.P. Jackson, A. Olin, J. Rogers (*TRIUMF*), U. Giesen, G. Roy (*U. Alberta*), L. Gialanella, U. Greife, C. Rolfs, F. Strieder, H.-P. Trautvetter (*Ruhr U. Bochum*), A. Hussein (*UNBC*), M. Junker (*INFN Gran Sasso*), J.D. King (*U. Toronto*), P.D. Parker (*Yale U.*), A. Shotter (*U. Edinburgh*), M. Wiescher (*U. Notre Dame*)
811. A direct study of the $^{19}\text{Ne}(p, \gamma)^{20}\text{Na}$ reaction with a recoil mass separator (DRAGON) [active], N.P.T. Bateman, J.M. D'Auria, D. Hunter, R. Korteling (*SFU*), R.N. Boyd (*Ohio State U.*), L. Buchmann, R. Helmer, D. Hutcheon, K.P. Jackson, A. Olin, J. Rogers (*TRIUMF*), U. Giesen, G. Roy (*U. Alberta*), L. Gialanella, U. Greife, C. Rolfs, F. Strieder, H.-P. Trautvetter (*Ruhr U. Bochum*), A. Hussein (*UNBC*), M. Junker (*INFN Gran Sasso*), J.D. King (*U. Toronto*), P.D. Parker (*Yale U.*), A. Shotter (*U. Edinburgh*), M. Wiescher (*U. Notre Dame*)
812. Proposed study of the $^8\text{Li}(\alpha, n)^{11}\text{B}$ reaction [active], R.N. Boyd, A. Murphy, L. Sahin, E. Smith, M. Zahar (*Ohio State U.*), L. Buchmann, P. Walden (*TRIUMF*), J.M. D'Auria (*SFU*), J.D. King (*U. Toronto*), M. Nishimura, S. Nishimura, I. Tanihata (*RIKEN*)
813. A study of the $^{15}\text{O}(\alpha, \gamma)^{19}\text{Ne}$ reaction at the astrophysically important energy [active], N.P.T. Bateman, J.M. D'Auria, D. Hunter, R. Korteling (*SFU*), R.N. Boyd (*Ohio State U.*), L. Buchmann, R. Helmer, D. Hutcheon, K.P. Jackson, A. Olin, J. Rogers (*TRIUMF*), U. Giesen, G. Roy (*U. Alberta*), U. Greife, C. Rolfs, F. Strieder, H.-P. Trautvetter (*Ruhr U. Bochum*), A. Hussein (*UNBC*), J.D. King (*U. Toronto*), P.D. Parker (*Yale U.*), A. Shotter (*U. Edinburgh*), M. Wiescher (*U. Notre Dame*)
814. μSR studies of unconventional superconductivity in Sr_2RuO_4 [active], Y. Fudamoto, K.M. Kojima, M. Larkin, G.M. Luke, J. Merrin, B. Nachumi, Y.J. Uemura (*Columbia U.*), Y. Maeno (*Kyoto U.*), R.J. Cava (*Princeton U.*)
815. β -NMR investigation of magnetic multilayers and giant magnetoresistance [active], J. Chakhalian, W.A. MacFarlane, R. Miller, (*UBC*), J.H. Brewer, R.F. Kiefl (*UBC-TRIUMF*), P. Amaudruz, R. Baartman, T.R. Beals, J. Behr, S. Daviel, S.R. Kreitzmann, T. Kuo, C.D.P. Levy, M. Olivo, R. Poutissou, Z. Salman, G.D. Wight (*TRIUMF*) S.R. Dunsiger, R. Heffner, G.D. Morris (*Los Alamos Nat. Lab*), C. Bommas (*U. Bonn*), A. Hatakeyama, Y. Hirayama, T. Shimoda (*Osaka U.*), K.H. Chow (*U. Alberta*), J.E. Elenewski, L.H. Greene (*U. Illinois-Urbana-Champagne*)

816. Semiconductor quantum wells investigated by β -NMR [active], J.H. Brewer, J.C. Chakhalian, S. Dunsiger, R. Miller, T. Tiedje (*UBC*), M. Gingras (*U. Waterloo*), B. Ittermann (*U. Marburg*), B. Hitti, P. Levy, S.R. Kreitzman, A. Zelenski (*TRIUMF*), R.F. Kiefl (*TRIUMF-UBC*) 75
817. β -NMR investigation of type II superconductors [active], D. Bonn, J.H. Brewer, J.C. Chakhalian, S. Dunsiger, W. Hardy, R. Liang, R.F. Kiefl, W.A. MacFarlane, R. Miller, J. Sonier (*UBC*), M. Gingras (*U. Waterloo*), R. Heffner (*Los Alamos Nat. Lab*), B. Ittermann (*U. Marburg*), B. Hitti, P. Levy, S.R. Kreitzman, A. Zelenski (*TRIUMF*), G.M. Luke (*Columbia U.*), J.W. Brill (*U. Kentucky*) 75
818. μ^+ SR study of magnetic ordering in the one-dimensional spin-1/2 antiferromagnet copper benzoate [completed], J.C. Chakhalian, S. Dunsiger, R.F. Kiefl, W.A. MacFarlane, R. Miller, J. Sonier (*UBC*), C. Broholm, D.C. Dender, P. Hammar, D. Reich (*Johns-Hopkins U.*), G. Luke, T. Uemura (*Columbia U.*)
819. μ^+ SR studies of the antiferromagnetic instability and metastable state in colossal magnetoresistance system $(\text{Nd}_{1-y}\text{Sm}_y)_{1/2}\text{Sr}_{1/2}\text{MnO}_3$ ($y = 0.875$) [completed], W. Higemoto, I. Watanabe (*RIKEN*), K. Nishiyama (*KEK*), K. Nagamine (*RIKEN-KEK*), A. Asamitsu, H. Kuwahara, Y. Tokura (*JRCAT, U. Tokyo*)
821. Shape coexistence and shape mixing in neutron-deficient platinum isotopes: on-line nuclear orientation studies of the decays of ^{182}Au and ^{186}Au [active], K.S. Krane (*Oregon State U.*), J.L. Wood (*Georgia Inst. Tech.*), J. D'Auria (*SFU*)
822. Effect of disorder on quantum spin liquid state [active], W. Higemoto, R. Kadono, A. Koda, K. Ohishi, (*KEK-IMSS*), M. Nohara, H. Takagi, H. Ueda, C. Urano (*U. Tokyo*) 77
823. Pure fermi decay in medium mass nuclei [active], G.C. Ball, R. Beaton, P. Bricault, G. Hackman, P. Klages, J.A. Macdonald, E. Vandervoort (*TRIUMF*), D.F. Hodgson (*U. Surrey-TRIUMF*), J. Cerny, D.M. Moltz, J. Powell (*Lawrence Berkeley Lab*), G. Savard (*Argonne Nat. Lab*), J.C. Hardy, V. Iacob (*Texas A&M U.*), S. Bishop, J. D'Auria (*SFU*), J.R. Leslie, H.-B. Mak, I.S. Towner (*Queen's U.*), D. Kulp, J.L. Wood (*Georgia Inst. Tech.*), E.F. Zganjar, A. Piechaczek (*Louisiana State U.*) 41
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