

## Japan Charged-Particle Nuclear Reaction Data Group (JCPRG)

### EXFOR : Dictionary for Institute

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1CANALA	Univ. of Alberta, Edmonton, Alberta
1CANBUQ	Bishop University, Lennoxville, Quebec
1CANCAN	Canada
1CANCPO	A.E.C.L. Commercial Products, Ottawa, Ontario
1CANCRC	A.E.C.L., Chalk River, Ontario
1CANCRL	Carleton University, Ottawa, Ontario
1CANGUE	Univ. of Guelph, Guelph, Ontario
1CANKQU	Queen's University, Kingston, Ontario
1CANLUQ	Laval University, Sainte-Foy, Quebec
1CANMCG	McGill University, Montreal, Quebec
1CANMCM	McMaster University, Hamilton, Ontario
1CANMGW	Sir George Williams Univ., Montreal, Quebec
1CANMNA	Univ. of Manitoba, Cyclotron Lab., Winnipeg, Manitoba
1CANMON	Univ. of Montreal, Montreal, Quebec
1CANMPT	Ecole Polytechnique de Montreal, Quebec
1CANMRC	National Research Council, Montreal Lab., Quebec
1CANOTC	National Research Council, Ottawa, Ontario
1CANOTU	Univ. of Ottawa, Ottawa, Ontario
1CANPIN	A.E.C.L., Whiteshell Nuc.Res.Etabl., Pinawa, Manitoba
1CANQU	Queen's Univ., Kingston, Ontario
1CANSAS	Univ. of Saskatchewan, Saskatoon, Saskatchewan
1CANSFU	Simon Frazer University, Burnaby, B.C.
1CANTMF	Tri University Meson Facility, Vancouver, B.C.
1CANTOR	Univ. of Toronto, Toronto, Ontario
1CANUBC	Univ. of British Columbia, Vancouver, B.C.
1CANUWO	Univ. of Western Ontario, London, Ontario
1USAABD	U.S. Army Aberdeen Res.+ Develop.Center, Aberdeen, MD
1USAACC	Exxon Nuclear Idaho Co., ID
1USAAEC	U.S. Atomic Energy Commission, Washington, DC
1USAAFOT	Air Force Inst. Technology, Wright-Patterson AFB, OH
1USAAFOW	Air Force Weapons Lab., Kirkland AFB, Albuquerque, NM
1USAAGN	Aerojet-General Nucleonics, San Ramon, CA
1USAAI	Rockwell Int., Energy Systems Group, Canoga Park, CA
1USAAIF	Argonne National Laboratory - West, Idaho Falls, ID
1USAAIP	American Institute of Physics, New York, NY
1USAALB	State University of New York, Albany, NY
1USAALS	Alabama State University, Montgomery, AL
1USAAMH	Amherst College, Amherst, MA
1USAAMW	American University, Washington, DC
1USAANA	U.S. Naval Academy, Annapolis, MD
1USAAND	Andrews Univ., Berrien Springs, MI
1USAANL	Argonne National Laboratory, Argonne, IL
1USAAPD	Atomic Power Development Associates, Detroit, MI
1USAARC	Atlantic Richfield Hanford Company, Richland, WA
1USAARF	Armour Research Foundation, Chicago, IL
1USAARK	Univ. of Arkansas, Fayetteville, AR
1USAARL	Aerospace Res. Labs, Wright-Patterson A.F. Base, OH
1USAARS	Aerospace Research Labs.
1USAAST	Astra Inc., Raleigh, NC
1USAASU	Arizona State University, Tempe, AZ

1USAAUB Auburn University, Auburn, AL  
1USAAUI University of Illinois, Urbana-Champaign, IL  
1USAB+W Babcock and Wilcox, Lynchburgh, VA  
1USABAR Bartol Research Foundation, Swarthmore, PA  
1USABAT Battelle Memorial Institute, Columbus, OH  
1USABCC J.T.Baker Chemical Company, Phillipsburg, NJ  
1USABCM Boston College, Chestnut Hill, MA  
1USABEL AT&T Bell Laboratories, Murray Hill, NJ  
1USABET Bettis Atomic Power Lab., Westinghouse, Pittsburgh,PA  
1USABLN Brooklyn College of the C.U.N.Y., Brooklyn, NY  
1USABNL Brookhaven National Laboratory, Upton, NY  
1USABNW Pacific Northwest Laboratories, Richland, WA  
1USABOE Boeing Scientific Research Labs, Seattle, WA  
1USABRK Univ. of Calif. Lawrence Berkeley Lab., Berkeley, CA  
1USABRL Ballistic Research Labs, Aberdeen Proving Grounds, MD  
1USABRN Brown University, Providence, RI  
1USABSU Ball State Univ., Muncie, IN  
1USABYU Brigham Young University, Provo, UT  
1USACAL California Institute of Technology, Pasadena, CA  
1USACAR Carnegie Inst. of Technology, Pittsburgh, PA,  
1USACAW Carnegie Institute, Washington, DC  
1USACBE Combustion Engineering, Windsor, CN  
1USACBF Thomas Jefferson Nat'l Accel.Facil., Newport News, VA  
1USACFN California State University, Northridge, CA  
1USACHI University of Chicago, IL  
1USACLA University of California, Los Angeles, CA  
1USACLI Clinton Labs, Knoxville, TN  
1USACLK Clark University, Worcester, MA  
1USACLS Cleveland State University, Cleveland, OH  
1USACLU Colorado University, Boulder, CO  
1USACMU Carnegie-Mellon University, Pittsburgh, PA  
1USACOL Columbia University, New York, NY  
1USACON Convair, San Diego, CA  
1USACOR Cornell University, Ithaca, NY  
1USACOU Courant Inst. of Mathematical Sciences, New York, NY  
1USACRD California Research and Development Co., Livermore,CA  
1USACSD University of California, San Diego, CA  
1USACSE Case Western Reserve University, Cleveland, OH  
1USACSI Columbia Scientific Industries Corp., Lafayette, LA  
1USACSM Colorado School of Mines, Golden, CO  
1USACST California State University, Los Angeles, CA  
1USACSU Colorado State University, Fort Collins, CO  
1USACUA Catholic University of America, Washington, DC  
1USACUW Curtiss-Wright Corp., Quehanna, PA  
1USACWR Curtiss-Wright Corp., Quehanna, Pa  
1USADAV University of California, Davis, CA  
1USADKE Duke University, Durham, NC  
1USADLS Univ. of Dallas, Irving, TX  
1USADNS Denison University, Granville, OH  
1USADOD Dept. of Defense, DASA, Washington, DC  
1USADOE Department of Energy, Washington, DC  
1USADOF Diamond Ordnance Fuse Laboratory  
1USADRF Dow Chemical Co., Rocky Flats, CO  
1USAEGG E G+G Energy Measurements, Santa Barbara, CA  
1USAEMY Emory University, Atlanta, GA  
1USAERD U.S. Energy Res. & Development Adm., Washington, DC  
1USAETS East Texas State University

1USAFLA University of Florida, Gainesville, FL  
1USAFSU Florida State University, Tallahassee, FL  
1USAGA Gulf Energy and Environmental Systems, San Diego, CA  
1USAGDT General Dynamics, Fort Worth, TX  
1USAGEA General Electric, Aircraft Nucl.Prop.Dept., Ohio  
1USAGEB General Electric Breeder React.Dev.Op., Sunnyvale, CA  
1USAGEC General Electric Company, San Jose, CA  
1USAGEF General Electric, Space Science Lab., PA  
1USAGEN General Electric, Nuclear Materials, PA  
1USAGEO University of Georgia, Athens, GA  
1USAGEP General Electric, Nucleonics Lab., Pleasanton, CA  
1USAGES General Electric, Schenectady, NY  
1USAGEV General Electric, Vallecitos Atomic Lab., CA  
1USAGGA Gulf General Atomic, San Diego, CA  
1USAGIT Georgia Institute of Technology, Atlanta, GA  
1USAGRT Gulf Radiation Technology, San Diego, CA  
1USAGSF Nasa Goddard Space Flight Center, Greenbelt, MD  
1USAGSU Georgia State University, Atlanta, GA  
1USAGWU George Washington University, Washington, DC  
1USAHAN Hanford Atomic Products, Richland, WA  
1USAHED Hanford Engineering Development Lab., Richland, WA  
1USAHNS Hazelton Nuclear Science Corp., Palo Alto, CA  
1USAHOU University of Houston, Houston, TX  
1USAHPE Hope College, Holland, MI  
1USAHRV Harvard University, Cambridge, MA  
1USAHSL U.S.A.E.C. Health and Safety Lab., NY  
1USAIAP Institute for Advanced Studies, Princeton, NJ  
1USAIBM I B M Research Lab., San Jose, CA  
1USAIIT Illinois Institute of Technology, Chicago, IL  
1USAINL Idaho National Engineering Lab., Idaho Falls, ID  
1USAINU Indiana University, Bloomington, IN  
1USAIOW University of Iowa, Iowa City, IA  
1USAIRT Intelcom Radiation Technology, San Diego, CA  
1USAIRV University of California, Irvine, CA  
1USAISB Indiana University, South Bend, IN  
1USAISU Idaho State University, Pocatello, ID  
1USAJHU Johns Hopkins University, Baltimore, MD  
1USAKAN University of Kansas, Lawrence, KS  
1USAKAP Knolls Atomic Power Laboratory, Schenectady, NY  
1USAKNT Kent State University, Kent, OH  
1USAKSU Kansas State University, Manhattan, KS  
1USAKTY University of Kentucky, Lexington, KY  
1USALAN Langley Research Center, NASA Langley Station, VA  
1USALAS Los Alamos National Laboratory, NM  
1USALBL Lawrence Berkeley Lab, Berkeley, CA  
1USALMS Lockheed Missiles and Space Div., Palo Alto, CA  
1USALOK Lockheed Aircraft Corp., Sunnyvale, CA  
1USALOW Lowell Technological Institute, Lowell, MA  
1USALOY Loyola University, Los Angeles, CA  
1USALRC NASA-Lewis Research Center, Cleveland, OH  
1USALRL Lawrence Livermore National Laboratory, Livermore, CA  
1USALSU Louisiana State University, Baton Rouge, LA  
1USALTI University of Massachusetts at Lowell, MA  
1USALVL UNiversity of Louisville, Louisville, KY  
1USAMAG MAGI, Elmsford, NY  
1USAMAR Marquette University, Milwaukee, WI  
1USAMGH Massachusetts General Hospital, Boston, MA

1USAMGT Michigan Technological University, Houghton, MI  
1USAMHD University of Michigan, Dearborn, MI  
1USAMHG University of Michigan, Ann Arbor, MI  
1USAMIN University of Minnesota, Minneapolis, MN  
1USAMIS University of Missouri, Columbia, MO  
1USAMIT Massachusetts Institute of Technology, Cambridge, MA  
1USAMND Mound Laboratory, Miamisburg, OH  
1USAMRD Maryland University, College Park, MD  
1USAMRY Maryland University, College Park, MD  
1USAMSM Mount Sinai Medical Center, Miami Beach, FL  
1USAMSS Mississippi State University, Mississippi State, MS  
1USAMST Mississippi State University, Mississippi State, MS  
1USAMSU Michigan State University, East Lansing, MI  
1USAMTR Idaho Nuclear Corp., Idaho Falls, ID  
1USAMTS Middle Tennessee State University, Murfreesboro, TN  
1USAMTU Montana State University, Missoula, MT  
1USAMUR Murray State University, Murray, KY  
1USANAL Fermi National Laboratory, Batavia, IL  
1USANAS NASA, Washington, DC  
1USANBS National Bureau of Standards, Washington, DC  
1USANCA University of North Carolina, Chapel Hill, NC  
1USANCS North Carolina State College, Raleigh, NC  
1USANDA Nuclear Development Associates Inc.  
1USANDL U.S. Army Nuclear Defence Lab., Edgewood Arsenal, MD  
1USANEB North Eastern University, Boston, MA  
1USANEL U.S. Nuclear Effects Lab., Edgewood Arsenal, MD  
1USANGC North Georgia College, Dahlonega, NC  
1USANIH National Institutes of Health, Bethesda, MD  
1USANIS National Inst.of Standards & Techn., Gaithersburg, MD  
1USANIU Northern Illinois University, Dekalb, IL  
1USANMS New Mexico State University, Las Cruces, NM  
1USANMX University of New Mexico, Albuquerque, NM  
1USANOL U.S. Navy Ordinance Lab., Silver Springs, MD  
1USANOT University of Notre Dame, Notre Dame, IN  
1USANRD U.S. Naval Radiolog. Defense Lab., San Francisco, CA  
1USANRL U.S. Naval Research Lab., Washington, DC  
1USANTS North Texas State University, Denton, TX  
1USANWU Northwestern University, Evanston, IL  
1USANYB State University of New York, Buffalo, NY  
1USANYU New York University, New York, NY  
1USAOAU Oak Ridge Associated Universities, Oak Ridge, TN  
1USAOBR Oberlin College, Oberlin, OH  
1USAOHO Ohio University, Athens, OH  
1USAOKL University of Oklahoma, Norman, OK  
1USAORD Nuclear Data Project, ORNL, Oak Ridge, TN  
1USAORE University of Oregon, Eugene, OR  
1USAORL Oak Ridge National Laboratory, Oak Ridge, TN  
1USAORS Radiation Shielding Inf. Center, ORNL, Oak Ridge, TN  
1USAORU Oregon State University, Corvallis, OR  
1USAOSU Ohio State University, Columbus, OH  
1USAPCT Picatinny Arsenal, Dover, NJ  
1USAPEN University of Pennsylvania, Philadelphia, PA  
1USAPPO Phillips Petroleum Co., Bartlettsville, OK  
1USAPR Puerto Rico  
1USAPRW Pratt + Whitney, Middletown, CT  
1USAPSU Pennsylvania State University, University Park, PA  
1USAPTIN Princeton University, Princeton, NJ

1USAPUP University of Pittsburgh, Pittsburgh, PA  
1USAPUR Purdue University, West Lafayette, IN  
1USARAN The Rand Corporation, Santa Monica, CA  
1USARDI Radiation Dynamics, Inc., Westbury, NY  
1USARDL University of Redlands, Redlands, CA  
1USARED Redstone Arsenal, AL  
1USAREN Reno Metallurgical Research Center, Reno, NV  
1USARES Division of Research, USAEC, Washington, DC  
1USARHI Rhode Island University, Kingston, RI  
1USARIC Rice University, Houston, TX  
1USARL Richland Operations Office, Richland, WA  
1USAROC University of Rochester, Rochester, NY  
1USARPI Rensselaer Polytechnic Institute, Troy, NY  
1USARUT Rutgers University, New Brunswick, NJ  
1USASAI Science Applications Internat. Corp., San Diego, CA  
1USASC Sandia National Laboratory, Albuquerque, NM  
1USASCA University of South Carolina, Columbia, SC  
1USASDC San Diego State College, San Diego, CA  
1USASIG National Nuclear Data Center, BNL, Upton, NY  
1USASJS San Jose State University, San Jose, CA  
1USASLU Saint Louis University, Saint Louis, MO  
1USASMU Southern Methodist University, Dallas, TX  
1USASNI Southern University Nuclear Inst., Baton Rouge, LA  
1USASNP Space Nuclear Propulsion Office, Cleveland, OH  
1USASOC Socony Mobil Oil Co., Dallas, TX  
1USASPC SPire Corp., Bedford, MA  
1USASRE Space Radiation Effects Lab., Newport News, VA  
1USASRI Stanford Research Inst., Menlo Park, CA  
1USASRL Savannah River Lab., E.I. Dupont, Aiken, SC  
1USASTB State University of New York, Stony Brook, NY  
1USASTF Stanford University, Stanford, CA  
1USASTM Saint Mary's College of Maryland, St. Mary's City, MD  
1USASUB State University of New York, Binghamtom, NY  
1USASUI Iowa State University, Ames, IA  
1USASWL University of Southwestern Louisiana, Lafayette, LA  
1USASYR Syracuse University, Syracuse, NY  
1USATAM Texas A & M University, College Station, TX  
1USATEM Temple University, Philadelphia, PA  
1USATEN University of Tennessee, Knoxville, TN  
1USATEX University of Texas, Austin, TX  
1USATID Div. of Technical Info., USAEC, Oak Ridge, TN  
1USATNC Texas Nuclear Corp., Austin, TX  
1USATNL Triangle Universities Nuclear Lab., Durham, NC  
1USATRW T R W, Redondo Beach, CA  
1USATTU Tennessee Technical Univ., Cookeville, TN  
1USATUL Tulane University, New Orleans, LA  
1USAUAL University of Alabama, AL  
1USAUAZ Arizona Univ., Tucson, AZ  
1USAUCB United Nuclear Corp., Tuxedo, NY  
1USAUCN University of Cincinnati, Cincinnati, OH  
1USAUCS Union Carbide, Sterling Forest Res. Center, Tuxedo, NY  
1USAUI University of Illinois, Urbana-champaign, IL  
1USAUID University of Idaho, Moscow, ID  
1USAUMA University of Massachusetts, Amhurst, MA  
1USAUMT University of Montana, Helena, MT  
1USAUNB University of Nebraska, Lincoln, NE  
1USAUNC United Nuclear Corp., Elmsford, NY

1USAUNH University of New Hampshire, Durham, NH  
1USAUSA United States of America  
1USAUSC University of Southern California, Los Angeles, CA  
1USAUSU Utah State University, Loagn, UT  
1USAUWY University of Wyoming, Laramie, WY  
1USAVBT Vanderbilt University, Nashville, TN  
1USAVIP Virginia Polytechnic Inst.,Blacksburg, VA  
1USAVIR University of Virginia, Charlottesville, VA  
1USAWAD Wright Air Development Center, OH  
1USAWAL Westinghouse Astronuclear Lab., Pittsburgh, PA  
1USAWAP Westinghouse Atomic Power Div., Pittsburgh, PA  
1USAWAS Washington University, St.Louis, MO  
1USAWAT Watertown Arsenal, Watertown, MA  
1USAWAU University of Washington, Seattle, WA  
1USAWAY Wayne State University, Detroit, MI  
1USAWES Westinghouse Research Lab., Pittsburgh, PA  
1USAWEW Westinghouse Advanced Reactor Div., Pittsburgh, PA  
1USAWGC West Georgia College, Carrolton, GA  
1USAWIS University of Wisconsin, Madison, WI  
1USAWKU Western Kentucky University, Bowling Green, KY  
1USAWLY Wesleyan University, Middletown, CT  
1USAWMC College of William and Mary, Williamsburg, VA  
1USAWMU Western Michigan University, Kalamazoo, MI  
1USAWPI Worcester Polytechnic Institute, Worcester, MA  
1USAWRU Western Reserve University, Cleveland, OH  
1USAWSA White Sands Missile Range, White Sands, NM  
1USAWSU Washington State University, Pullman, WA  
1USAWVU University of West Virginia, Morgentown, WV  
1USAWWS Western Washington State College, Bellingham, WA  
1USAYAL Yale University, New Haven, CT  
2AUSATI Atominst. der Oesterreichischen Hochschulen, Vienna  
2AUSAUS Austria  
2AUSGFK Gesellschaft zur Foerderung der Kernenergie, Graz  
2AUSIRK Inst. fuer Isotopenforschung und Kernphysik, Vienna  
2AUSKUL Johannes-Kepler-Universitaet, Linz  
2AUSPVI Inst.fuer Experimentalphysik, Universitaet Wien  
2AUSSGA Oest.Forschungszentrum Seibersdorf, Wien+Seibersdorf  
2AUSTHV Inst.f.Experimentelle Kernphysik, Techn.Univ.,Vienna  
2AUSTPG Inst.fuer Theoretische Physik der Univ. Graz, Graz  
2BLGBLG Belgium  
2BLGBN Belgonucleaire  
2BLGBRU Univ.Libre de Bruxelles, Bruxelles  
2BLGGHT Ghent, Rijks Universiteit  
2BLGLEU Katholieke Univ. Leuven, Leuven  
2BLGLIE Univ.of Liege, Liege  
2BLGLVN Catholic Univ. of Louvain, Louvain-la-Neuve  
2BLGMOL C.E.N., Mol  
2BLGNAM University "Notre Dame de la Paix", Namur  
2BLGPCL Inst.de Physique Corpusculaire, Louvain-la-Neuve  
2BLGUIA Univ. Instelling, Anvers  
2BLGUMK Union Miniere du Haut Katanga, Bruxelles  
2BLGVUB Vrije Univ., Bruxelles, Cyclotron Dept.  
2DENAAU Aarhus University, Aarhus  
2DENCOP Univ. of Copenhagen, Copenhagen  
2DENDEN Denmark  
2DENNBI Niels Bohr Inst., Copenhagen  
2DENNTA Nordita, Denmark

2DENRIS Riso, Roskilde  
 2EIREIR Ireland  
 2EIRUCD University College, Dublin  
 2FR AAA Groupe Atomique Alsacien Atlant., H/Seine  
 2FR BOR Bordeaux, Univ. + C.E.A.  
 2FR BRC CEN Bruyere-le-Chatel  
 2FR CAD C.E.N. Cadarache  
 2FR CAE Caen Univ.  
 2FR CEL C.E.N. Limeil  
 2FR CLE Universite de Clermont, Clermont-Ferrand  
 2FR CSN Centre de Spectrom.Nucl.et de Spectrom.de Masse,Orsay  
 2FR EDF Electricite de France, Paris  
 2FR ENS Ecole Normale Superieure, Paris  
 2FR FAR CEA Fontenay-aux-Roses, Seine  
 2FR FR France  
 2FR GAN Grand Accelérateur National d'Ions Lourds, Caen  
 2FR GRA Centre d'Etudes Nucleaires de Bordeaux-Gradignan  
 2FR GRE Grenoble, Isere (CEA and Univ.)  
 2FR ILL Institut Laue-Langevin, Grenoble  
 2FR ITL C.E.A.,Centre d'Etudes de Valduc,Is-sur-Tille  
 2FR LIM C.E.N. Limeil  
 2FR LRM Lab.de Recherche des Musees de France, Paris  
 2FR LYO Univ. of Lyon, Villeurbanne, Rhone  
 2FR NTE Universite de Nantes  
 2FR PAR Univ. of Paris, (incl.Orsay), Paris  
 2FR PAU Dept. de Recherches Physiques, St.Paul-les-Durance  
 2FR PCF College de France, Paris  
 2FR SAC C.E.N. Saclay  
 2FR SAT Laboratoire National SATURNE, Gif-sur-Yvette  
 2FR STR Nucl.Res.Centre, Strasbourg  
 2FR TOU Univ.of Toulouse, Haute-Garonne  
 2FR ULP Univ. Louis Pasteur, Strasbourg  
 2FR VNV Centre d'Etudes de Limeil, Villeneuve-Saint-Georges  
 2GERALK Alkem GMBH, Leopoldshafen  
 2GERBBC Brown-Boveri/Krupp, Mannheim  
 2GERBER Hahn-Meitner-Inst., Berlin  
 2GERBOC Ruhr-Universitaet Bochum  
 2GERBON Univ. of Bonn  
 2GERDKZ Deutsches Krebsforschungszentrum, Heidelberg  
 2GERDOR Dortmund Univ., F.R.Germany  
 2GERDRE Dresden, Techn.Univ.  
 2GERFRB Freiburg im Breisgau, Universitaet  
 2GERFRK J.W.Goethe Univ., Frankfurt/Main  
 2GERGAR Max-Planck-Institut fuer Plasmaphysik, Garching  
 2GERGEE Geesthacht, GKSS  
 2GERGER Germany  
 2GERGOE Univ. of Goettingen  
 2GERGSI Gesellschaft fuer Schwerionenforschung, Darmstadt  
 2GERHAM Hamburg, Universitaet  
 2GERHEI Heidelberg, Universitaet  
 2GERIAK Inst.fuer Angewandte Kernphysik, Karlsruhe  
 2GERIFS Inst.fuer Strahlenphysik, Stuttgart  
 2GERIKA Informationssystem Karlsruhe,  
 2GERIKE Inst.fuer Kernenergetik,Stuttgart Univ.  
 2GERINA Interatom, Bensberg  
 2GERJEU Jena Univ.  
 2GERJLU Justus Liebig Univ., Giessen

2GERJUL Forschungszentrum Juelich  
 2GERKFK Forschungszentrum Karlsruhe  
 2GERKIG GKSS, Geesthacht  
 2GERKIL Univ. of Kiel, Kiel  
 2GERKLN Universitaet Koeln  
 2GERKRU Karlsruhe, Univ.  
 2GERLMU Ludwig-Maximilians Universitaet Muenchen  
 2GERMBG Univ. of Marburg  
 2GERMNZ Univ. of Mainz  
 2GERMPH Max-Planck-Institut fuer Kernphysik, Heidelberg  
 2GERMPM Max-Planck-Institut fuer Chemie, Mainz  
 2GERMST Univ. of Muenster  
 2GERMUE Muenchen, Techn.Univ.  
 2GERMUN Technische Universitaet Muenchen  
 2GERMUU Univ. of Munich, Munich  
 2GERPTB Physikal. Techn. Bundesanst., Braunschweig  
 2GERSBU Univ. of Saarland, Saarbruecken  
 2GERSIE Siemens, Erlangen  
 2GERTHA Tech.Hochschule, Aachen  
 2GERTHB Tech.Hochschule, Braunschweig  
 2GERTHD Tech.Universitaet, Darmstadt  
 2GERTHS Universitaet Stuttgart  
 2GERTUB Tech.Univ., Berlin  
 2GERTUE Universitaet Tuebingen  
 2GERTUH Techn. Univ. Hannover  
 2GERUEN Univ. of Erlangen-Nuernberg  
 2GERUH Univ. Hannover (previously Tech.Univ.Hannover)  
 2GERUSI Univ. Siegen  
 2GERWUU Wuerzburg, Universitaet  
 2GERZFK Zentralinst. f. Kernforschung, Rossendorf  
 2GRCATH NCSR Demokritos, Aghia Paraskevi, Athens  
 2GRCGRC Greece  
 2GRCIOA Univ. of Ioannina, Ioannina  
 2ICEICE Iceland  
 2ITYBAU Bari, University  
 2ITYBOL ENEA Centro Ricerche Energia di Bologna  
 2ITYCAG Univ. of Cagliari  
 2ITYCAS Centro di Studi Nucleari della Casaccia, Rome  
 2ITYCAT Univ. of Catania  
 2ITYCIS C.I.S.E., Milan  
 2ITYENI ENI, San Donato, Milan  
 2ITYFIR Univ.of Florence  
 2ITYFRA Laboratori Nazionali di Frascati  
 2ITYFSN Fac.di Sci.Ambientali,Sec.Univ.Studi,Napoli(Caserta)  
 2ITYGVA U.+INFN., Genova  
 2ITYITY Italy  
 2ITYLGS Lab.Naz.del Gran Sasso, Ist.Naz.di Fis.Nucl.,Assergi  
 2ITYLNS Laboratori Nazionali del Sud-INFN, Catania  
 2ITYMES Univ.of Messina  
 2ITYMIL Univ. + INFN Milan  
 2ITYMIP Politecnico di Milano  
 2ITYNAP Dip.di Sci.Fisiche, Univ. Federico II, Napoli  
 2ITYPAD Padua, University and Lab. Naz. Legnaro  
 2ITYPAV Univ. of Pavia  
 2ITYROM Univ. of Rome  
 2ITYSAL Sorin Nuc.Res.Centre Saluggia  
 2ITYSIC Centro Sicil.di Fisica Nucl.CSFNSM, Catania



2ITYTRI Univ. of Trieste  
 2ITYTUP Politecnico di Torino  
 2ITYTUR Univ.of Turin  
 2ITYUBO Bologna, Univ. + Ist. Naz. di Fis. Nucl.  
 2JAPFE Fuji Electric  
 2JAPHIR Hiroshima, University of Hiroshima  
 2JAPHOS Hosei University, Tokyo  
 2JAPHYO Hyogo Agricult.Univ., Sasayama  
 2JAPISS Inst.of Solid State Physics, Univ. of Tokyo  
 2JAPJAE JAERI,rTokaib., Inst. of Phys.+ Chem. Res., Saitama  
 2JAPJAP Japan  
 2JAPJCL Cyclotron Lab., Inst. of Phys.+ Chem. Res., Saitama  
 2JAPJEL Elect.Pow.Dev.Corp., AED, Tokyo  
 2JAPKON Konan Univ., Kobe  
 2JAPKTO Kyoto Univ.  
 2JAPKYU Kyushu Univ., Dept.of Nucl.Eng., Fukuoka  
 2JAPNAG Univ.of Nagoya  
 2JAPNIG Toshiba Corporation  
 2JAPNII Niigata Univ., Niigata  
 2JAPOSA Osaka Univ., Osaka  
 2JAPOSP Radiation Centre of Osaka Prefecture, Sakai, Osaka  
 2JAPPNC Power Reactor and Nuclear Fuel Devel. Corp., Tokai  
 2JAPSAE Sumitomo Atomic Energy Industries  
 2JAPSHR Ship Research Inst., Ministry of Transport, Japan  
 2JAPTIT Tokyo Inst.of Technology, Tokyo  
 2JAPTOH Tohoku Univ., Sendai  
 2JAPTOK Tokyo Univ., Tokyo  
 2JAPTSU Univ. of Tsukuba, Ibaraki  
 2JAPWDA Waseda Univ., Tokyo  
 2JAPYAM Yamanashi Univ., Kofu  
 2JAPYOK Rikkyo (St.Paul) Univ., Yokosuka and Tokyo  
 2JPN AIS Nat.Inst.of Adv.Ind.Sci.Tech.(AIST), Tsukuba  
 2JPN AIT Ashikaga Inst.of Technology, Ashikaga, Tochigi  
 2JPN AOY Aoyama Gakuin Univ., Tokyo  
 2JPN CIT Chiba Inst.of Technology, Narashino, Chiba  
 2JPN ETL Electrotechnical Laboratory, Tsukuba  
 2JPN FE Fuji Electric  
 2JPN FUK Fukuoka Univ., Fukuoka  
 2JPN GMT Gifu College of Medical Technologies, Gifu  
 2JPN HIR Hiroshima Univ., Hiroshima and Higashi-Hiroshima  
 2JPN HIT Himeji Inst. of Technology, Himeji  
 2JPN HOS Hosei University, Tokyo  
 2JPN HYO Hyogo Agricult.Univ., Sasayama  
 2JPN ICU Internat.Christian Univ., Mitaka, Tokyo  
 2JPN IPC Inst.of Physical and Chemical Res. (RIKEN), Wakou  
 2JPN IRS National Inst.of Radiological Sciences, Chiba  
 2JPN ISS Inst.of Solid State Physics, Univ. of Tokyo  
 2JPN JAE Japan Atomic Research Institute (JAERI)  
 2JPN JCL Cyclotron Lab., Inst. of Phys.+ Chem. Res., Saitama  
 2JPN JEL Elect.Pow.Dev.Corp., AED, Tokyo  
 2JPN JNC Japan Nucl.Cycle Development Inst., Tokai-mura  
 2JPN JPN Japan  
 2JPN JSR Japan Synchrotron Rad.Res.Inst. (JASRI), Hyogo  
 2JPN JTD Juntendo Univ., Chiba  
 2JPN KEK High Energy Accelerator Res. Org. (KEK), Tsukuba  
 2JPN KIT Univ.of Occupat.and Environmental Health, Kitakyushu  
 2JPN KNK Kinki Univ.,Higashi Osaka

2JPNKNZ Kanazawa Univ., Kanazawa  
 2JPNKON Konan Univ., Kobe  
 2JPNKTJ Kobe Tokiwa Junior College, Kobe  
 2JPNKTO Kyoto Univ.  
 2JPNKUE Kyoto Univ. of Education, Kyoto  
 2JPNKYO Kyoritsu College of Pharmacy, Tokyo  
 2JPNKYU Kyushu Univ., Fukuoka  
 2JPNLEP Nat.lab.for High Energy Physics, Oho, Ibaraki  
 2JPNNAG Nagoya Univ., Nagoya  
 2JPNNCT Oita National College of Technology, Oita  
 2JPNNIA Nagasaki Inst.of Applied Science, Nagasaki  
 2JPNNIG Toshiba Corporation  
 2JPNNII Niigata Univ., Niigata  
 2JPNOSA Osaka Univ., Osaka  
 2JPNOSP Radiation Centre of Osaka Prefecture, Sakai, Osaka  
 2JPNPNC Power Reactor and Nuclear Fuel Devel. Corp., Tokai  
 2JPNSAE Sumitomo Atomic Energy Industries  
 2JPNSHR Ship Research Inst., Ministry of Transport, Japan  
 2JPNSHZ Shizuoka Univ., Shizuoka  
 2JPNSTA Science and Technology Agency, Chiyoda-ku, Tokyo  
 2JPNsut Tokyo University of Science, Noda, Chiba  
 2JPNsuu Saitama University, Urawa, Saitama  
 2JPNtit Tokyo Inst.of Technology, Tokyo  
 2JPNtks Tokushima Univ., Tokushima  
 2JPNtmu Tokyo Metropolitan Univ., Hachioji, Tokyo  
 2JPNtoH Tohoku Univ., Sendai  
 2JPNtoi Tohoku Inst. of Technology, Sendai  
 2JPNtok Univ. of Tokyo, Tokyo  
 2JPNtsu Univ. of Tsukuba, Tsukuba  
 2JPNwda Waseda Univ., Tokyo  
 2JPNwer Wakasa Wan Energy Res.Center, Tsuruga, Fukui  
 2JPNyam Yamanashi Univ., Kofu  
 2JPNymg Yamagata Univ., Yamagata  
 2JPNyok Rikkyo (St.Paul) Univ., Yokosuka and Tokyo  
 2LUXLUX Luxembourg  
 2MCOMCO Monaco  
 2NEDAMS Univ. of Amsterdam, Amsterdam  
 2NEDDEL Technical Univ., Delft  
 2NEDENT Eindhoven Univ. of Technology  
 2NEDFUL Vrije Universiteit te Amsterdam, De Boelelaan  
 2NEDGRN Groningen  
 2NEDIKO Nat'l Inst. for Nucl. and High Energy Physics, Sect.K  
 2NEDKVI Kernfysich Versneller Inst., Groningen  
 2NEDLEI Univ. of Leiden  
 2NEDNED Netherlands  
 2NEDRCN Netherland's Energy Research Foundation, Petten  
 2NEDUTR Univ. of Utrecht  
 2NEDVDN Central Bureau der V.D.E.N., Arnhem  
 2NORBGN Univ. of Bergen  
 2NORHAL Halden, Inst.for Energiteknikk  
 2NORJEN Inst.for Atomenergi, Kjeller  
 2NORKJL Inst.for Atomenergi, Kjeller  
 2NORNOR Norway  
 2NOROSL Univ. of Oslo, Oslo  
 2PRTFNL Centro de Fisica Nuclear, Lisboa  
 2PRTJES Junta de Energia Nuclear, Sacavem  
 2PRTLFE Labor. de Fisica e Engeneria Nucleares, Sacavem

2PRTLIS Universidade de Lisboa, Lisboa  
 2PRTNOV Universidade Nova de Lisboa, Lisboa  
 2PRTPRT Portugal  
 2SF ABA Abo Akademi, Turku  
 2SF HLS Univ. of Helsinki, Helsinki  
 2SF HLT Helsinki Tech.Univ., Otaniemi  
 2SF JYV Jyvaeskylae, University  
 2SF OUL University of Oulu, Oulu  
 2SF SF Finland  
 2SF TKU Turku University  
 2SPNJNE Junta Energia Nuclear, Madrid  
 2SPNSAU Univ.de Santiago de Compostela  
 2SPNSEU Sevilla University  
 2SPNSPN Spain  
 2SPNVAL Valencia, University  
 2SPNVLD U.de Valladolid  
 2SWDAE Studsvik Energiteknik AB  
 2SWDCTH Chalmers Univ. of Tech., Gothenburg  
 2SWDFOA Research Inst. for National Defence, Stockholm  
 2SWDFOI Swedish Defence Research Agency (FOI), Stockholm  
 2SWDIPS Res.Inst.of Physics (form.Nobel Inst.), Stockholm  
 2SWDKTH Royal Inst.of Tech., Stockholm  
 2SWDLND Lund Univ.+ Tech.Univ.  
 2SWDRIP Res.Inst.of Phys., Stockholm  
 2SWDSTK Stockholm  
 2SWDSWD Sweden  
 2SWDSWR Studsvik Science Research Laboratory  
 2SWDTLU Tandem Laboratory, Uppsala  
 2SWDUPP Univ. of Uppsala  
 2SWDUST Stockholm University  
 2SWTBAS Basel Univ.  
 2SWTETH Eidgenossische Technische Hochschule, Zuerich  
 2SWTFRS Univ. of Fribourg  
 2SWTGVE Univ. of Geneva  
 2SWTLAU Univ. of Lausanne  
 2SWTNEU Univ. of Neuchatel  
 2SWTPSI Paul Scherrer Inst., Villigen  
 2SWTSWT Switzerland  
 2SWTUBE Bern, Univ.  
 2SWTVIL Swiss.Inst.for Nucl.Phys.Res., Villigen  
 2SWTWUR Eidgenossisches Inst.fuer Reakt.Forsch., Wuerenlingen  
 2SWTZUR Zurich  
 2TUKANK Ankara Univ. + Middle East Technical Univ., Ankara  
 2TUKANR Ankara Nucl. Res. and Training Centre  
 2TUKCNA Cekmece Nucl. Res. Centre, Istanbul  
 2TUKSTU Istanbul University  
 2TUKTUK Turkey  
 2TUKYTU Yildiz Technical University, Istanbul  
 2UK ALD Awre, Aldermaston, England  
 2UK BCT Battersea College of Technology, London  
 2UK BIA Univ.of Aston, Birmingham  
 2UK BIR Univ. of Birmingham, England  
 2UK BLF Univ. of Belfast, N.Ireland  
 2UK BRD Univ. of Bradford, England  
 2UK BRI Univ. of Bristol, England  
 2UK CAV Cavendish Lab., Cambridge, Engl.  
 2UK CCH UKAEA Reactor Materials Lab., Warrington

2UK CEG Central Electricity Generating Board, Berkeley Labs  
 2UK CRN Royal Military Coll.of Sci.,Cranfield Univ.,Swindon  
 2UK CUL UKAEA Fusion, Culham Science Centre, Abingdon  
 2UK DOU Dounreay Experimental Reactor Establishment, Thurso  
 2UK DUR Univ. of Durham, England  
 2UK EDG Univ. of Edinburgh, Scotland  
 2UK EE Engl.Elec.Co., Wheatstone, Leics  
 2UK GLS Univ. of Glasgow, Glasgow, Scotland  
 2UK HAR AERE, Harwell, Berks, England  
 2UK HHL M.R.C.Cyclotron Unit, Hammersmith Hospital, London  
 2UK IST Imp.Coll.of Sci.+Techn., London  
 2UK KCL King's College London, London  
 2UK KEN Univ. of Kent, Canterbury, England  
 2UK LEE Univ. of Leeds, Leeds, England  
 2UK LON Univ. of London, London, England  
 2UK LVP Univ. of Liverpool, England  
 2UK MAN Univ. of Manchester, England  
 2UK MVE Metropolitan-Vickers Electrical H.V. Lab.  
 2UK NEW Univ. of Newcastle-on-Tyne  
 2UK NIN Rutherford Lab., Chilton, Berks  
 2UK NPL National Phys.Lab., Teddington  
 2UK NRP National Radiological Protection Board, Harwell  
 2UK OXF Univ. of Oxford, Oxford  
 2UK QML Queen Mary College, London  
 2UK REA Univ. of Reading  
 2UK RLY UKAEA, Risley  
 2UK RR Rolls-Royce  
 2UK SBL Dept.of Physics, Polytechnic of South Bank, London  
 2UK SHE Univ. of Sheffield  
 2UK SRC Scottish Reactor Centre, E.Kilbride, Scotland  
 2UK SSX Univ. of Sussex, Brighton  
 2UK SUR Univ. of Surrey, Guilford  
 2UK UK United Kingdom  
 2UK UKW Windscale Reactor Development Labs., UKAEA  
 2UK WIN AEE, Winfrith, Dorset, England  
 2ZZZBIP Bureau Intern.des Poids et Mesures, Sevres  
 2ZZZCER CERN, Geneva  
 2ZZZDGE CEC Dosimetry Group, Geel  
 2ZZZGEL Inst. for Ref. Mat. and Meas. (IRNM), Geel  
 2ZZZHOE OECD Halden React.Proj.  
 2ZZZISP E.C. Joint Research Center (JRC), Ispra, Italy  
 2ZZZITU CEC Institute for Transuranium Elements, Karlsruhe  
 2ZZZNDC NEA Data Bank, Paris  
 2ZZZNEA OECD Nuclear Energy Agency (NEA)  
 3AFGAFG Afghanistan  
 3ALGALG Algeria  
 3ALGCDT Centre de Devel. des Techn.Nucl., H.C.R., Alger  
 3ALGUAG Universite d'Alger  
 3ANGANG Angola  
 3ARGARG Argentina  
 3ARGCAB Inst.Balseiro y Centro Atomico Bariloche, Bariloche  
 3ARGCDO Centro de Documentacion Cientifica, Buenos Aires  
 3ARGCIN Centro Nacional de Investigacion, Buenos Aires  
 3ARGCNE Comision Nacional de Energia Atomica, Buenos Aires  
 3ARGCRB Centr.Nacional de Rad. Cosmica, Buenos Aires  
 3ARGIIA Inst.de Investig.Aeronaut.y Espacial, Buenos Aires  
 3ARGUBA Universidad de Buenos Aires

3ARGUPA Universidad de La Plata, Buenos Aires  
3AULAIN A.I.N.S.E., Lucas Heights, NSW  
3AULAML Univ. of Melbourne, Parkville, Victoria  
3AULASY Univ. of Sydney, Sydney  
3AULAUA Australian Nucl.Sci.and Techn.Org., Lucas Heights,NSW  
3AULAUF Flinders Univ., Bedford Park, Adelaide  
3AULAUL Australia  
3AULCBR Australian Natl.Univ., Canberra  
3AULMOU Monash University  
3AULNSW Univ.of New South Wales  
3AULQUC Univ.Coll., Townsville, Queensl.  
3AULQUE Univ.of Queensland  
3AULTAS Univ.of Tasmania  
3AULUNE Univ.of New England  
3AULUWA Univ. of Western Australia, Nedlands  
3AULWAI Western Australian Inst. of Tech., West Bentley  
3AULWUC Wollongong University College, Wollongong  
3BANBAN Bangladesh  
3BANDAC Dhaka, University  
3BANDAE Dhaka, Atomic Energy Centre  
3BANRAJ Univ.of Rajshahi  
3BANRAM Dhaka, Atomic Energy Centre, Ramna  
3BANSAV Inst.Nucl.Sci.and Tech., AERE, Savar  
3BLVBLV Bolivia  
3BLVIBC Inst.Boliviano de Ciencia y Tecnologia Nucl., La Paz  
3BLVLCFC Laboratorio de Fisica Cosmica, Chacaltaya  
3BULBLA Sofia, Inst. of Nuclear Res. and Nuclear Energy  
3BULBUL Bulgaria  
3BULSOF Univ.of Sofia  
3BURBUR Myanmar (formerly Burma)  
3BURRAS Rangoon Arts and Science Univ., Rangoon  
3BZLABC Academia Brasileira de Ciencias, Rio de Janeiro  
3BZLBSP IEA and University, Sao Paulo  
3BZLBZL Brazil  
3BZLCAF Centro Latin.Americ.de Fisica, Rio de Janeiro  
3BZLCTA Inst. de Estudos Avancados, Sao Jose dos Campos  
3BZLIDF Inst.de Fisica,Univ.do Rio Grande do Sul,Porto Alegre  
3BZLIEA Instituto de Energia Atomica, Sao Paulo  
3BZLIEN Instit. de Engenharia Nuclear, Rio de Janeiro  
3BZLIPE Inst.de Pesquisas Energeticas e Nucleares, Sao Paulo  
3BZLIPR Instit. de Pesquisas Radioativas, Belo Horizonte  
3BZLITA Instit. Technic. de Aeronautica, Sao Paulo  
3BZLLDD Lab.de Dosimetria, Rio de Janeiro  
3BZLPUJ Pontif. Universidad Catolica, Rio de Janeiro  
3BZLRIO Centro Brazil.de Pesquisas Fisicas, Rio de Janeiro  
3BZLUEC Univ.Estadual de Campinas, Inst.de Fisica, Campinas  
3BZLUFF Univ. Federal Fluminense, Niteroi  
3BZLUFP Univ. Federal de Pernambuco, Recife  
3BZLUFR Univ. Federal do Rio de Janeiro  
3BZLUSP Univ.de Sao Paulo, Sao Paulo  
3CGOCGO Zaire  
3CHFCHF China, Taiwan  
3CHFNTU Nat.Taiwan Univ., Taipei  
3CHFSHI Instit. of Nuclear Energy Research, Lung Tan  
3CHFTHU National Tsing Hua Univ., Hsin-Chu  
3CHLCEC Comision de Energia Nuclear, Santiago  
3CHLCHL Chile

3CHLSAN Universidad de Chile, Santiago  
 3CHLUCC Univ.de Chile, Fac.de Ciencias, Santiago  
 3CHPAEP Inst.of Atomic Energy, Beijing  
 3CHPBJG Beijing Univ., Beijing  
 3CHPBNU Beijing Normal Univ., Beijing  
 3CHPCHP China Nucl.Inf.Centre, Beijing  
 3CHPFUD Fudan Univ., Shanghai  
 3CHPIHP Inst.of High-Energy Physics, Acad.Sinica, Beijing  
 3CHPIMP Inst.of Modern Physics, Acad.Sinica, Lanzhou  
 3CHPLNZ Lanzhou Univ., Lanzhou  
 3CHPZHN Zheng-Zhou Univ.  
 3CLMCLM Columbia, Rep.  
 3CLMIAN Inst.de Asuntos Nucl., Bogota  
 3CMRCMR Cameroon  
 3COSCOS Costa Rica  
 3CPRAEP Inst.of Atomic Energy, Beijing  
 3CPRBJG Beijing Univ., Beijing  
 3CPRBNT Beijing National Tandem Accelerator Lab., Beijing  
 3CPRBNU Beijing Normal Univ., Beijing  
 3CPRCNI China Nucl.Inf.Centre, Beijing  
 3CPRCPR China, People's Rep.  
 3CPRFUD Fudan Univ., Shanghai  
 3CPRHST Chinese Univ. of Sci. and Tech., Hefei  
 3CPRIHP Inst.of High-Energy Physics, Acad. Sinica, Beijing  
 3CPRIMP Inst.of Modern Physics, Acad. Sinica, Lanzhou  
 3CPRINT Northwest Inst.of Nuclear Technology, Xian  
 3CPRIPM Inst.of Applied Phys.and Computational Math., Beijing  
 3CPRJIL Jilin Univ., Changchin  
 3CPRLNZ Lanzhou Univ., Lanzhou  
 3CPRNAN Nanjing Univ., Nanjing  
 3CPRNIX Northwest Inst.of Nucl.Technology, Xian  
 3CPRNPC Southwest Inst.Nucl.Phys.and Chem.,Mianyang,Sichuan  
 3CPRNRS Inst.of Nucl.Research, Acad.Sinica, Shanghai  
 3CPRSHN Shaanxi Normal Univ., Xian  
 3CPRSIU Sichuan Univ., Chengdu  
 3CPRSST Shanghai Univ. of Science and Technology  
 3CPRTSI Tsinghua Univ., Beijing  
 3CPRUPD Univ. of Petroleum, Dongying, Shandong  
 3CPRZHN Zheng-Zhou Univ.  
 3CROCRO Croatia  
 3CRORBZ Inst.Rudjer Boskovic, Zagreb  
 3CROZAG Univ. of Zagreb, Zagreb  
 3CSR CHE Inst.of High En.Phys., Prague  
 3CSRCHU Charles Univ.,Faculty.of Mathem.and Physics, Prague  
 3CSRCSR Czechoslovakia  
 3CSRCTI Czech.Technical Univ., Prague  
 3CSR CZA Czech.Acad.of Sciences, Prague  
 3CSR PFU Pf Univ., Nuclear Physics Dept., Bratislava  
 3CSR SLO Slovak Academy of Sciences, Physics Inst., Bratislava  
 3CSRUB Komenskeho (Comenius) Univ., Bratislava  
 3CSR UJF Inst.of Nucl.Phys.of Czech.Acad.Sci., Rez u Prahy  
 3CSR UJV Inst.of Nucl.Res., Rez u Prahy  
 3CUBCUB Cuba  
 3CUBHAB Inst. for Nuclear Sci. and Technol., Ciudad Habana  
 3CZR CHE Inst. of High Energy Physics, Prague  
 3CZRCHU Charles Univ., Faculty of Math. and Physics, Prague  
 3CZRCTI Czech Technical Univ., Prague

3CZRCZA Czech Acad.of Sciences, Prague  
 3CZRCZR Czech Republic  
 3CZRUFJ Inst. of Nucl. Phys. of Czech Acad. Sci., Rez u Prahy  
 3CZRUVJ Inst. of Nuclear Research, Rez u Prahy  
 3DDRBEH Humboldt Univ. Berlin + DAW Zeuthen  
 3DDRBEF VEB Atomkraft, Berlin-Pankow  
 3DDRBFJ Bergakademie Freiberg  
 3DDRDDR German Democratic Republic  
 3DDRJNA Jena, Univ.  
 3DDRROS Zentralinst.f.Kernforschung, Rossendorf  
 3DDRTUD Dresden, Techn.Univ. at Dresden and Pirna  
 3DDRZFI Zentralinst. Isotopen- und Strahlenforschung, Leipzig  
 3ECUECU Ecuador  
 3ECUUEF Univ.Central de Ecuador, Dept.de Fisica, Quito  
 3EGYCAI AEA Cairo  
 3EGYEGY Egypt  
 3ETPETP Ethiopia  
 3GHAGHA Ghana  
 3GUAGUA Guatemala  
 3HKGHKG Hongkong  
 3HKGHKU Chinese Univ.of Hongkong  
 3HUNDEB Inst.of Nuclear Research, ATOMKI, Debrecen  
 3HUNELU Eotvos Lorand Univ., Budapest  
 3HUNHUN Hungary  
 3HUNII Mta Izotop Intezete, Budapest  
 3HUNKFI Central Research Inst. for Physics, KFKI, Budapest  
 3HUNKOS Inst. for Experimental Physics, Kossuth U., Debrecen  
 3HUNNBM National Bureau of Measurements, Budapest  
 3INDALU Allahabad Univ., Allahabad  
 3INDAUW Andhra Univ., Nuclear Research Lab., Waltair  
 3INDBDA M.S. University of Baroda, Baroda  
 3INDBHU Banaras Hindu Univ., Varanasi  
 3INDBOM Bombay  
 3INDBOS Bose Institute, Kolkata  
 3INDCAU Kolkata, University  
 3INDCLC Calcutta  
 3INDDLH Delhi Univ., Delhi  
 3INDFRI Central Fuel Research Inst., FRI, Bihar  
 3INDGUL Gulmarg Res.Observat., Kashmir  
 3INDIAC Ind.Ass.Cult.of Sc., Kolkata  
 3INDIIB Ind.Inst.of Technology, Bombay  
 3INDIID Ind.Inst.of Technology, Delhi  
 3INDIIK Ind.Inst.of Technol., Kharagpur  
 3INDIND India  
 3INDIPB Inst.of Physics, Bhubaneswar  
 3INDISI Ind.Statistical Inst., Kolkata  
 3INDITB Ind.Inst.of Technol., Bangalore  
 3INDITK Ind.Inst.of Technol., Kanpur  
 3INDJCB Janta College, Bakewar  
 3INDJNU Jawaharlal Nehru Univ., New Delhi  
 3INDKAL Indira Gandhi Centre for Atomic Research, Kalpakkam  
 3INDKUD Karnatak University, Dharwar  
 3INDKUK Kurukshetra Univ., Kurukshetra  
 3INDLUL Lucknow Univ., Lucknow  
 3INDMAD Ind.Inst.of Technology, Madras  
 3INDMGA Mahatma Ghandi Science Inst.of Technology, Ahmedabad  
 3INDMUA Muslim Univ., Aligarh

3INDNSD Nuclear Science Centre, New Delhi  
3INDOSM Osmania University, Hyderabad  
3INDPAT Punjabi Univ., Patiala  
3INDPOO Poona, University  
3INDPRA Phys.Res.Laboratory, Ahmedabad  
3INDPUC Punjab Univ., Chandigarh  
3INDSAH Saha Institute, Kolkata  
3INDSUK Shivaji Univ., Kolhapur  
3INDTAT Tata Institute, Bombay  
3INDTHO Thoubal College, Thouba  
3INDTRM Bhabha Atomic Res. Centre, Trombay  
3INDURJ Univ.of Rajestan, Jaipur  
3INDURR Univ.of Roorkee, Roorkee  
3INDVEC Variable Energy Cyclotron Centre, Kolkata  
3INDVUU Vikram Univ., Ujjain  
3INSBNG Bandung Reactor Center, Bandung  
3INSINS Indonesia  
3IRNAMU Arya-Mehr Univ.of Technology (A.M.U.T.), Tehran  
3IRNIRN Iran  
3IRNPAH Pahlavi Univ., Daneshgah, Shiraz  
3IRNTEH Tehran University Nuclear Centre, Tehran  
3IRQBAG Univ. Baghdad  
3IRQIRQ Iraq  
3IRQNRI Nucl.Research Center, Baghdad  
3ISLHEB Hebrew Univ., Jerusalem  
3ISLHFA Technion Haifa  
3ISLISL Israel  
3ISLNEG Ben Gurion Univ. of the Negev, Beer-Sheva  
3ISLREH Rehovoth Lab., Israel AEC.  
3ISLSOR Soreq Research Centre, Yavne  
3ISLTEL Tel Aviv University  
3ISLWZI Weizmann Inst., Rehovoth  
3IVCIVC Ivory Coast  
3JAMJAM Jamaica  
3JAMUWI West-Indies Univ., Kingston  
3JORJOR Jordan  
3KDRKDR Democratic People's Rep. of Korea  
3KORCHA Chung-Ang Univ., Seoul  
3KORDAU Donga University, Pusan  
3KORKAE Korean Atomic Energy Res. Inst., Yusong, Taejon  
3KORKBU National Kyong-Buk Univ., Taegu  
3KORKNU Kyungpook National University  
3KORKOR Republic of Korea  
3KORKRM Korea Inst.Radiol.and Med.Sci.(KIRAMS), Seoul  
3KORKSR Korea Standards Res.Inst., Taedok Science Town, Taejon  
3KORKUS Korea Univ., Seoul  
3KORNSU Natl.Seoul Univ., Seoul  
3KORPNU Pusan National University, Pusan  
3KORPUE Pohang Univ. of Science and Technology, Pohang  
3KORSEO Advanced Energy Res.Inst., Seoul  
3KORULS Univ. of Ulsan, Ulsan  
3KORYON Yonsei Univ., Seoul  
3KUWKUW Kuwait  
3KYAKYA Kenya  
3KYANAI University College, Nairobi  
3LE LE Lebanon  
3LIBLIB Libya



3LIBTAJ Tajura Nuclear Res. Center, Tripoli  
 3LIBUGB University of Garyounis, Benghazi  
 3MA MA Madagascar  
 3MAKMAK Macedonia  
 3MALMAL Malaysia  
 3MALUKM Univ. Kebangsaan Malaysia, Bangi  
 3MALUSM Univ.Sains Malaysia, Penang  
 3MEXCNM Centro Nucl. de Mexico, Salazar  
 3MEXIFM Univ.de Mexico, Inst.de Fisica, Mexico City  
 3MEXINI Inst.Nacional de Invest.Nucleares (ININ), Ocoyoacac  
 3MEXIPN Inst.Politec.Nac.,Mexico City  
 3MEXITM Inst.Tecnol.de Monterrey  
 3MEXMEX Mexico  
 3MEXUGM Univ.de Guanajuato  
 3MEXUMX Univ.Nacl.Autonoma de Mexico  
 3MGLMGL Mongolia  
 3MLIMLI Mali  
 3MORMOH Univ. Mohammed V, Rabat  
 3MORMOR Morocco  
 3MORRAB Lab.de Phys. Nucleaire, Faculte des Sciences, Rabat  
 3NERNER Niger  
 3NI NI Nigeria  
 3NZLNZA Univ. of Auckland, Auckland  
 3NZLNZH Inst.of Nuclear Sciences, Lower Hutt  
 3NZLNZL New Zealand  
 3NZLNZW Victoria University of Wellington, Wellington  
 3PAKGCL Nuc.Res.Lab.,Gov't College, Lahore  
 3PAKLAH Atomic Energy Centre, Lahore  
 3PAKNIL PINSTECH, Nilore, Rawalpindi  
 3PAKPAK Pakistan  
 3PERISE Instituto Superior de Energia Nuclear, Lima  
 3PERPER Peru  
 3PHIPHI Philippines  
 3POLIBJ Inst. Badan Jadr., Swierk and Warszawa  
 3POLIFJ Inst.Fiz.Jadr., Krakow  
 3POLINR Inst.Badan Jadr., Swierk+Warszawa  
 3POLIPJ Soltan Inst.Probl.Jadr., Swierk+Warszawa  
 3POLITJ Inst. Fiz. Tech. Jadr., Krakow  
 3POLJAD Swierk+Warszawa, Inst.Badan Jadr.  
 3POLKPI Wyzsza Szkola Pedagogiczna, Kielce  
 3POLKPS Wyzsza Szkola Pedagogiczna, Katowice  
 3POLKRK Inst.Fiz.Jadr. + Univ., Krakow  
 3POLLOU Univ. of Lodz, Lodz  
 3POLPOL Poland  
 3POLPWA Politechnika Warszawska  
 3POLSKU Curie-Sklodowska University, Lublin  
 3POLUJK Krakow, Jagellonian Univ  
 3POLWRO Univ.of Wroclaw, Wroclaw  
 3POLWWA Warszawa, University  
 3PRGPRG Paraguay  
 3QATQAT Qatar  
 3RUMBBU Babes-Bolyai University, Cluj  
 3RUMBUC Inst. de Fizica si Inginerie Nucleara, Bucharest  
 3RUMBUU Univ.of Bucharest  
 3RUMCIP Central Inst.of Physics, Bucharest  
 3RUMJAS Research Centre of Phys., Jassy  
 3RUMPIC Pedagogical Inst., Constantza

3RUMPIT Inst. of Nuclear Power Reactors (I.R.N.E.)  
 3RUMRUM Romania  
 3SAFDWU Univ.of Durban-Westville, Durban  
 3SAFITH iThemba LABS, Somerset West  
 3SAFNAC Nat.Accelerator Centre, Faure  
 3SAFNLP National Physical Research Lab., Pretoria  
 3SAFPEL Atomic Energy Corp.of South Africa, Pelindaba  
 3SAFPOT Univ. of Potchefstrom, Potchefstrom  
 3SAFSAF South Africa, Rep.  
 3SAFSCT Univ. of Capetown, Cape Town  
 3SAFSIR Council for Scientific and Industrial Res., Pretoria  
 3SAFSTL Univ. of Stellenbosch  
 3SAFSUN Nuclear Inst., Southern Univ., Faure, Cape Prov.  
 3SAFUPT Univ.of Pretoria, Hatfield, Pretoria  
 3SAFUSF Univ. of South Africa, Pretoria  
 3SAFWIT Univ.of Witwatersrand, Johannesburg  
 3SARDHA Univ.of Petroleum and Minerals, Dhahran  
 3SARRIY Univ.of Riyadh, Saudi Arabia  
 3SARSAR Saudi Arabia  
 3SHQNPT Inst.of Nucl.Physics, Tirana  
 3SHQSHQ Albania  
 3SILSIL Sierra Leone  
 3SINSIN Singapore  
 3SLKSLK Slovakia  
 3SLKSLO Slovak Academy of Sciences, Physics Inst., Bratislava  
 3SLKUB Komenskeho (Comenius) Univ., Bratislava  
 3SLNIJS Inst. Jozef Stefan, Ljubljana  
 3SLNSLN Slovenia  
 3SN SN Senegal  
 3SR SR Sri Lanka  
 3SUDKHA Univ.of Khartoum  
 3SUDSUD Sudan  
 3SY SY Syria  
 3TAIBGK Office of the Atomic Energy for Peace, Bangkok  
 3TAICHM Chiang Mai Univ.  
 3TAITAI Thailand  
 3TUNTUN Tunisia  
 3UAEUAE United Arab Emirates  
 3UGDUGD Uganda  
 3URUURM Montevideo, Universidad de la Republica  
 3URUURU Uruguay  
 3VENIVI Inst.Venezual. de Investigacion Cientifica, Caracas  
 3VENUCV Univ. Central de Venezuela, Caracas  
 3VENVEN Venezuela  
 3VN DAL Nuclear Research Inst., Dalat  
 3VN IPH Inst.of Physics, Acad.of Science, Hanoi  
 3VN NNR Nat.Inst.f.Nucl.Res., Vietnam  
 3VN VN Vietnam  
 3YUGBKB Inst. Boris Kidrich, Vinca  
 3YUGNJS Inst. Jozef Stefan, Ljubljana  
 3YUGRBZ Inst.Rudjer Boskovic, Zagreb  
 3YUGYUG Yugoslavia  
 3YUGZAG Univ. of Zagreb, Zagreb  
 3ZAIZAI Zaire  
 3ZAMZAM Zambia  
 3ZIMZIM Zimbabwe  
 3ZZZIAE IAEA, Vienna

3ZZZMO Int.Lab.of Marine Radioactivity  
 3ZZZNS Nuclear Data Section, IAEA, Vienna  
 3ZZZTPT Intern.Centre for Theoretical Physics, Trieste  
 3ZZZUN U.N. Organizations  
 4ARMARM Armenia  
 4ARMJER Inst. Fiziki Armen. A.N., Jerevan  
 4ARMJSU Jerevan State Univ., Jerevan  
 4AZRAZR Azerbaydzhan  
 4BLRBLR Belarus  
 4BLRIFB Inst.Fiz. Belorus. AN, Minsk  
 4BLRIJE Inst. Yad. Energetiki Byeloruss.A.N., Minsk  
 4BLRJIE Joint Inst.f.Energy and Nucl.Res., Minsk-Sosny  
 4BLRPCB Inst. Rad.Phys.Chem.Probl., Belarus Acad.Sci., Minsk  
 4BLRTMO Inst. Teplo-Massoobmena Byeloruss. A.N., Minsk  
 4CCPARM Inst. Fiziki A.N. Armenian SSR, Jerevan  
 4CCPBIO Biophysical Inst., Moscow  
 4CCPCCP Union of Soviet Socialist Republics  
 4CCPCJD Centr po Yadernym Dannym, Obninsk  
 4CCPFEI Fiziko-Energeticheskii Inst., Obninsk  
 4CCPFRT Inst. Fiziko-Tekh. i Radio-tekh. Izmerenii, Meneleevo  
 4CCPFTI Fiziko-Tekhnicheskii Inst. Ioffe, Leningrad+Gatchina  
 4CCPFVE High-Energy Physics Inst.,Serpukhov  
 4CCPGAC Inst. for Geo and Analytical Chemistry, Moscow  
 4CCPGAT Fiziko-Tekhnicheskii Inst. Ioffe, Gatchina  
 4CCPGKS State Committee on Standards, Moscow  
 4CCPGOR Univ. of Gorkii, Gorkii  
 4CCPICD Inf. Centr po Yadern. Dannym, Obninsk  
 4CCPICP Inst. of Chemical Physics, Moscow  
 4CCPIFB Inst. Fiz. AN Belorus.SSR, Minsk  
 4CCPIFG Inst. Fiziki Akad. Nauk Gruzinskoi SSR, Tbilisi  
 4CCPIFL Inst. Fiziki A.N. Latviiskoi SSR, Riga  
 4CCPIFP Inst. Fizicheskikh Problem, Moscow  
 4CCPIFU Inst. Fiziki A.N. Ukrainskoi SSR, Kiev  
 4CCPIIU Inst. of Information of USSR State A.E.Comm., Moscow  
 4CCPIJE Inst. Yad. Energetiki A.N. Byeloruss.SSR, Minsk  
 4CCPIJI Inst. Yadernykh Issledovaniy A.N. Ukrainskoi SSR,Kiev  
 4CCPIRE Inst. Radiofiziki i Elektroniki (I.R.E.), Kharkov  
 4CCPITE Inst. Teoret. i Experiment. Fiziki, Moscow  
 4CCPITF Inst. of Theor. Physics, Ukrainian Acad.Sci., Kiev  
 4CCPJIA Inst. Yadernykh Issledovaniy A.N. SSSR, Moscow  
 4CCPKAZ Inst. Yadernoi Fiziki, Alma-Ata, Kazakhstan  
 4CCPKFT Kharkovskii Fiziko-Tekhnicheskii Inst., Kharkov  
 4CCPKGU Gosudarstvennyi Univ. (State Univ.), Kiev  
 4CCPKHU Kharkovskii Gosudarstvennii Univ.  
 4CCPKRI Inst. of Crystallography, Leningrad  
 4CCPKUR Inst. At.En. I.V. Kurchatova, Moscow  
 4CCPLEB Fiz. Inst. Lebedev (FIAN), Moscow  
 4CCPLIN Leningrad Inst. Nucl. Phys., USSR Acad.Sci., Gatchina  
 4CCPLPI Leningradskii Politekhnikeskii Inst.  
 4CCPMBP Inst. Mediko-Biologicheskikh Problem, Moscow  
 4CCPMFT Moskovskii Fiziko-Tekhnicheskii Inst., Moscow  
 4CCPMIF Moscow Inst. of Engineering Physics, Moscow  
 4CCPMIM Vsesoyuzniy Nauchno-Issl. Inst. Metrologii, Leningrad  
 4CCPMOS Moscow State Univ., Nuclear Physics Inst., Moscow  
 4CCPNIR NIIAR Dimitrovgrad  
 4CCPOFI Inst. Optiko-Fizicheskikh Izmerenii, Moscow  
 4CCPOIE Inst. of Atomic Energetics, Obninsk

4CCPRGU Rostovskii Gosudarstvennyi Univ., Rostov-na-Donu  
 4CCPRI Khlopin Radiev. Inst., Leningrad  
 4CCPSCU USSR State Comm. on the Use of Atomic Energy, Moscow  
 4CCPSGU Saratov Gosudarstvennyi Univ.  
 4CCPSIB Inst. Yad. Fliz, Novosibirsk  
 4CCPSUL Gosudarstvennyi Univ. (State Univ.), Leningrad  
 4CCPTGU Tbilisskii Gosudarstvennyi Univ., Tbilisi  
 4CCPTIL Leningradskii Tekhnologicheskii Inst. Im.Lensoveta  
 4CCPTMO Inst. Teplo-Massoobmena A.N. Byeloruss.SSR, Minsk  
 4CCPTPI Tomskii Politekhnikeskii Inst., Tomsk  
 4CCPUFT Ukrainskii Fiziko-Tekhnicheskii Inst., Kharkov  
 4CCPUKR Ukraine  
 4CCPUZB Inst. Yadernoi Fiziki A.N. Uzbeksnoi SSR, Tashkent  
 4CCPUZH Uzhgorod State Univ.  
 4CCPVNI USSR Scient. and Technical Inform. Inst., Moscow  
 4ESTEST Estonia  
 4GRGGRG Georgia  
 4GRGIFG Inst.Fiziki Gruzinskoi Akad.Nauk, Tbilisi  
 4GRGTGU Tbilisskiy Gosudarstvennyi Univ., Tbilisi  
 4KASAAT Almaty Technological Institute, Almaty  
 4KASKAS Kazakhstan  
 4KASKAZ Inst. Yadernoi Fiziki, Almaty  
 4LATIFL Inst. Fiziki Latvyskoi A.N., Riga  
 4LATLAT Latvia  
 4LATULR Univ. of Latvia, Riga  
 4LITLIT Lithuania  
 4MLDAPI Appl.Physics Inst.,Mold.Acad.Sci.,Chisinau  
 4MLDMLD Moldova  
 4RUSBIO Biophysical Inst., Moscow  
 4RUSCJD Centr po Yadernym Dannym, Obninsk  
 4RUSEPA Experimental Physics Inst., Sarov  
 4RUSFEI Fiziko-Energeticheskii Inst., Obninsk  
 4RUSFRT Fiziko-Tekh. i Radio-Tekh. Izmerenii, Mendeleevo  
 4RUSFTI Fiz.-Tekhnicheskii Inst.Ioffe, St.Petersburg+Gatchina  
 4RUSFVE High-Energy Physics Inst., Serpukhov  
 4RUSGAC Inst. for Geo- and Analytical Chemistry, Moscow  
 4RUSGKS State Committee on Standards, Moscow  
 4RUSGOR Univ.of Gorkiy, Gorkiy  
 4RUSICP Inst.of Chemical Phys., Moscow  
 4RUSICR Space Res. Inst., Moscow  
 4RUSIFP Inst. Fizicheskikh Problem, Moscow  
 4RUSIIU Inst.of Information of Russ.State A.E.Comm., Moscow  
 4RUSITE Inst. Teoret. + Experiment. Fiziki, Moscow  
 4RUSITR Inst.of Innovation and Thermonuclear Res., Troitsk  
 4RUSJIA Inst. Yadernych Issledovaniy Rossiiskoi A.N., Moscow  
 4RUSKRI Inst.of Crystallography, St.Petersburg  
 4RUSKTU Khabarovsk State Technical Univ., Khabarovsk  
 4RUSKUR Inst.At.En. I.V.Kurchatova, Moskva  
 4RUSLEB Fiz.Inst. Lebedev (FIAN), Moskva  
 4RUSLIN Leningrad Inst. Yad. Fiz., Russ. A.N., Gatchina  
 4RUSLPI Leningradskiy Politekhnikeskii Inst.  
 4RUSMBP Inst.Mediko-Biologicheskikh Problem, Moscow  
 4RUSMFT Moskovskiy Fiziko-Tekhnicheskii Inst., Moskva  
 4RUSMIF Moscow Inst.of Engineering Physics, Moscow  
 4RUSMIM Vsesoyuznyi Nauchno-Issl.Inst. Metrol., St.Petersburg  
 4RUSMOS Moscow State Univ.,Nuclear Physics Inst., Moscow  
 4RUSNIK Moscow Scient.and Res. Project Inst.in En.and Techn.

4RUSNIR NIIAR Dimitrovgrad  
 4RUSOFI Inst. Optiko-Fizicheskikh Izmerenii, Moscow  
 4RUSOIE Inst.of Atomic Energetics, Obninsk  
 4RUSOZT Omsk Inst. of Railroad Engineers  
 4RUSRGU Rostovskiy Gosudarstvennyi Univ., Rostov-na-Donu  
 4RUSRI Khlopin Radievij Inst., St.Petersburg  
 4RUSRUS Russia  
 4RUSSCU Ussr State Comm.on the Use of Atomic Energy, Moscow  
 4RUSSGU Saratov Gosudarstvennyi Univ.  
 4RUSSIB Inst. Yad. Fiz., Sib. A.N., Novosibirsk  
 4RUSSUL Gosudarstvennyi Univ. (State Univ.), St.Petersburg  
 4RUSTIL Leningradskiy Tekhnologicheskij Inst. Im.Lensoveta  
 4RUSTPC Technical Physics Inst., Chelyabinsk  
 4RUSTPI Tomskiy Politeknicheskij Inst., Tomsk  
 4RUSTVU Tver' State Univ., Tver'  
 4RUSVNI Scient.and Technical Inform.Inst., Moscow  
 4UKRIEP Inst.of Electron Physics, Ukrain.Acad.Sci., Uzhgorod  
 4UKRIFU Inst. Fiziki Ukrainskoi A.N., Kiev  
 4UKRIJD Ukr. Inst. Yadernyh Doslidzhen, Kiev  
 4UKRIJI Inst.Yadernykh Issledovaniy Ukrainskoi A.N., Kiev  
 4UKRIRE Inst. Radiofiziki i Elektroniki, Ukrain. AN, Kharkov  
 4UKRITF Bogolyubov Inst.of Theor.Phys.,Ukrain.Acad.Sci., Kiev  
 4UKRKFT Kharkovskii Fiziko-Tekhnicheskii Inst., Kharkov  
 4UKRKGU Gosudarstvennyi Univ. (State Univ.), Kiev  
 4UKRKHU Kharkovskii Gosudarstvennyi Univ.  
 4UKRUFT Ukrainskiy Fiziko-Tekhnicheskij Inst., Kharkov  
 4UKRUKR Ukraine  
 4UKRUZH Uzhgorod State Univ.  
 4UZ SSU Samarkand State Univ., Samarkand  
 4UZ UZ Uzbekistan  
 4UZ UZB Inst. Yadernoi Fiziki Uzbekskoi A.N., Tashkent  
 4ZZZDUB Joint Inst.for Nucl.Res., Dubna