

# ACIPA MEMBERSHIP DIRECTORY

March 22, 2002

Life members of ACIPA are marked with a %% sign.

Annual members for 2001 are marked with a % sign.

Annual members for 2000 are marked with a @ sign.

Fellows of the American Physical Society are marked with a \* sign.

The following abbreviations are used to indicate the field(s) of research interest:

AS: Astrophysics	CMP: Condensed Matter Physics	NP: Nuclear Physics
AMOP: Atomic, Molecular, and Optical Physics	FD: Fluid Dynamics	PB: Physics of Beams
BP: Biological Physics	HPP: High Polymer Physics	PF: Particles and Fields
CP: Chemical Physics	MP: Materials Physics	PP: Plasma Physics

E: Experimental; T: Theoretical

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%%ANANTARAMAN, National Superconducting Senior Physicist  
N. Cyclotron Laboratory  
Michigan State Univ. NP(E)  
East Lansing, MI 48824- Phone: 517-333-6337 (o);  
1321 517-349-5947 (h)  
FAX: 517-353-5967  
e-mail:  
anantaraman@nscl.msu.edu  
Ph.D.: Univ. of Chicago  
(1973)

Spin excitations in nuclei studied by inelastic and charge-exchange reactions;  
physics with radioactive beams.

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%%ARAVIND, Padmanabhan K.	Physics Department	Associate Professor
	Worcester Polytechnic Institute	AMOP(T)

Worcester, MA 01609-2280 Phone: 508-831-5559 (o);  
508-879-2039 (h)  
FAX: 508-831-5886  
e-mail: paravind@wpi.edu  
Ph.D.: Northwestern Univ.  
(1980)

Quantum optics, quantum information theory.

---

**\*%ASHTEKAR, Abhay Vasant** 104 Davey Laboratory Professor  
Penn State University AS(T), PF(T)  
University Park, PA 16802-6300 Phone: 814-863-9601 (o);  
814-867-8406 (h)  
FAX: 814-867-9608  
e-mail:  
ashtekar@phys.psu.edu  
Ph.D.: Univ. of Chicago  
(1974)

General relativity and gravitation; quantum field theory; quantum gravity;  
foundations of quantum mechanics; differential geometry; functional analysis.  
Director of the Center for Gravitational Physics and Geometry at Penn State  
University.

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**\*%BALACHANDRAN, Aiyalam P.** Physics Department Professor  
Syracuse University PF(T)  
Syracuse, NY 13244-1130 Phone: 315-443-3469 (o);  
315-479-8826 (h)  
FAX: 315-443-9103  
e-mail: bal@phy.syr.edu  
Ph.D: University of Madras  
(1962)

Scattering theory; current algebras; magnetic monopole theory; solitons;  
quantum anomalies of classical symmetries; exotic statistics; spin-statistics

theorems; Skyrmion physics; role of topology in classical and quantum physics; quantum gravity; quantum optics.

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<b>***BANAVAR, Jayanth R.</b>	Physics Department Penn State University University Park, PA 16802-6300	Professor & Chair CMP(T) Phone: 814-863-1089 (o); 814-867-4788 (h) FAX: 814-865-0978 e-mail: jayanth@phys.psu.edu Ph.D: University of Pittsburgh (1978)
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Statistical physics and condensed matter physics.

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<b>***BASU, Shantanu</b>	Physics & Astronomy Dept. Univ. of Western Ontario London, Ontario N6A 3K7 Canada	Asst. Professor AS(T) Phone: 519-661-2111x86706 (o) FAX: 519-661-2033 e-mail: basu@astro.uwo.ca Ph.D: University of Illinois at Urbana-Champaign (1993)
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Star formation, interstellar medium, computational astrophysics.

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<b>***BHAT, Mulki R.</b>	P.O. Box 705 Miller Place, NY 11764	Retired NP(E) Phone: 631-928-9545 (h) FAX: e-mail: mrbhat@worldnet.att.net Ph.D.: Ohio State Univ. (1961)
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**\*%%BHATT, Ravindra Nautam**      Dept. Elec. Engineering      Professor  
Princeton University      CMP(T)  
Princeton, NJ 08544-5263      Phone: 609-258-1819 (o)  
FAX: 609-258-3745  
e-mail:  
ravin@ee.princeton.edu  
Ph.D.: Univ. Illinois (1976)

Disordered and correlated electron systems; random magnetic systems; high temperature superconductivity; metal-insulator transition; quantum Hall effect; etc.

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**\*%%BHATTACHARYA, Sabyasachi**      Tata Institute of      Director  
Fundamental Research      CMP(E), FD(E)  
Homi Bhabha Rd      Phone: 91-22-22804500  
Colaba, Mumbai 400005  
India  
FAX: 91-22-22804501  
e-mail: shobo@tifr.res.in  
Ph.D.: Northwestern Univ.  
(1978)

Disordered solids; charge density wave conductors; superconductivity; phase transitions; complex fluids.

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**%%BOSE, Samir K.**      Department of Physics      Professor  
University of Notre Dame      AS(T), PF(T)  
Notre Dame, IN 46656      Phone: 574-631-7215 (o);  
574-272-6970 (h)  
FAX: 574-631-5952  
e-mail: sbose@nd.edu  
Ph.D.: Univ. of Rochester  
(1962)

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**%%CHATTOPADHYAY,**      Division of Natural Science, Professor

**Soumitra**

Maths and P.E.  
Floyd College  
P.O. Box 1864  
Rome, GA 30162-1854

AMOP(T), CP(T)  
Phone: 706-295-6353 (o)  
FAX: 706-295-6356  
e-mail: soumitra@floyd.edu  
Ph.D.: Univ. Missouri,  
Columbia (1991)

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\*%%CHATTOPADHYAY, Director's Office  
**Swapan**

MS 7A  
Jefferson Lab  
12000 Jefferson Avenue  
Newport News, VA 23606

Associate Director  
PB(E+T), PF(E+T), PP(E+T)  
Phone: 757-269-7001 (o)  
FAX:  
e-mail: swapan@jlab.org  
Ph.D.: Univ. California,  
Berkeley (1982)

Advanced Collider/ Accelerator concepts (theory and expt); nonlinear phenomena; ultrashort phenomena; quantum processes in computing; synchrotron radiation; ultracold systems. Editor-in-Chief of "Particle Accelerators" journal. Associate Director, Thomas Jefferson National Accelerator Facility.

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%%CHATURVEDI,  
**Pradeep K.**

Department of Astronomy Professor  
University of Maryland  
College Park, MD 20742

PP(T)  
Phone: 301-405-1621 (o);  
703-451-7266 (h)  
FAX: 301-405-9966  
e-mail:  
chat@astro.umd.edu  
Ph.D.: Phys. Res. Lab.,  
Ahmedabad (1976)

Theoretical studies in space plasma physics, especially with applications to terrestrial ionosphere, magnetosphere, and solar physics.

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<b>%%CHAUDHARI, Ram D.</b>	Department of Physics SUNY at Oswego Oswego, NY 13126	Professor CMP(E+T) Phone: 315-341-2676 (o); 315-343-3583 (h) FAX: 315-341-5424 e-mail: chaudhar@oswego.edu Ph.D.: Univ. of British Columbia (1964)
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Superconductivity; kinetics of surface aggregation; undergraduate teaching.

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<b>%DAS GUPTA, Subal</b>	Physics Department McGill University 3600 University St.  Montreal, PQ H3A 2T8 Canada	Professor NP(T) Phone: 514-398-6499 (o); 514-489-3137 (h) FAX: 514-398-8434 email: dasgupta@physics.mcgill.ca Ph.D.: McMaster Univ.(1963)
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<b>%EASWAR, Nalini</b>	Physics Department Smith College Clark Science Center  Northampton, MA 01063	Associate Professor CMP(E) Phone: 413-585-3887 (o); 413-549-2644 (h) FAX: 413-585-3786 e-mail: neaswar@smith.edu Ph.D.: Univ. of Pittsburgh (1984)
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Light scattering studies of polymer diffusion, colloids. Currently working on force propagation in flowing granular matter.

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**%%GANGOPADHYAY, Shubhra**, Dept Elec/Comp Eng  
Univ Missouri at Columbia  
Columbia, MO 65211  
La Pierre Chair Professor  
AMOP(E), CMP(E)  
Phone: 573-882-4070 (o)  
FAX: 573-882-0397  
e-mail:  
gangopadhyays@missouri.edu  
Ph.D.: IIT Kharagpur (1982)

Deposition of hydrogenated amorphous silicon thin films using linear and toroidal electron-cyclotron-resonance plasma systems; characterization of the films using picosecond photoluminescence decay and various other optical and electrical techniques.

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**\*%%GARG, Shila** PhysicsDepartment  
College of Wooster  
Wooster, OH 44691  
Professor  
CMP, AMOP  
Phone: 330-263-2586 (o)  
FAX: 330-263-2516  
e-mail: sgarg@wooster.edu  
Ph.D.: Univ. Kent, UK  
(1975)

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**\*%%GARG, Umesh** Department of Physics  
University of Notre Dame  
Notre Dame, IN 46556  
Professor  
NP(E)  
Phone: 574-631-7352 (o);  
574-272-2957  
FAX: 574-631-5952  
e-mail:  
umesh.garg.1@nd.edu  
Ph.D.: SUNY at Stony  
Brook (1978)

High angular momentum properties of nuclei; superdeformation and other exotic shapes and their evolution; giant resonances.

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**%%GHOSH, Kunal Prasad**    Department of Physics    Asst. Head for Undergraduate Affairs  
Carnegie Mellon Univ.    CMP(T)  
5000 Forbes Avenue    Phone: 412-268-3413 (o); 412-372-8950 (h)  
Pittsburgh, PA 15213    FAX: 412-681-0648  
e-mail:  
kghosh@andrew.cmu.edu  
Ph.D.: Iowa State Univ. (1988)

Average dielectric function and spectral representation of composites with fractal structure.

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**%%GHOSH, Ruby Nandini**    Ctr for Sensor Materials    Scientist  
Department of Physics    CMP(E)  
Michigan State Univ.    Phone: 517-3559200x2384(o); 517-381-9831 (h)  
East Lansing, MI 48824    FAX: 517-432-3080  
e-mail: ghosh@pa.msu.edu  
Ph.D.: Cornell Univ. (1991)

Physics of electrical transport in low-dimensional structures at cryogenic temperatures.

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**%%GONSALVES, Richard J.**    Department of Physics    Professor  
SUNY at Buffalo    PF(T)  
Buffalo, NY 14260-1500    Phone: 716-645-3043 (o); 716-689-6948 (h)  
FAX: 716-645-2507  
e-mail:  
phygons@buffalo.edu

Ph.D.: Columbia Univ.  
(1976)

Standard Model predictions for cross sections in high-energy colliding-beam experiments; perturbative quantum chromodynamics; the Glashow-Salam-Weinberg model of electroweak interactions; supersymmetry; dynamical symmetry breaking; parity and CP violation Theories of possible new physical phenomena beyond the Standard Model. Computational physics: Monte-Carlo studies of field-theoretical and statistical systems; use of computers in physics instruction.

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%%GUHA, Sabyasachi	Department of Physics Rutgers University P.O. Box 849  Piscataway, NJ 08855-0849	Physics Specialist CMP(T) Phone: 908-445-4017 (o); 908-886-8614 FAX: 908-445-4343 e-mail: sabya@physics.rutgers.edu Ph.D.: IISc, Bangalore (1987)
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Metal-insulator transition, multilayers, ultrathin high temperature superconductors.

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%GUPTA, Sanju	Department of Physics Univ. Puerto Rico P.O. Box 23343  San Juan, PR 00931- 3343	Graduate Student CP(E), CMP(E), MP(E) Phone: 787-764-000, ext. 2602 (o); 787-753- 0321 (h) FAX: 787-756-7717  e-mail: sgup@rocketmail.com Ph.D. Expected: 2002/2003
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Study of a variety of different materials, ranging from ordered and disordered

semiconductors (narrow- and wide-band gap) to ferroelectrics and relaxor materials. Main technique used is Raman spectroscopy. Presently involved in spectroscopic ellipsometry and field-emission properties of nanodiamond materials.

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**\*%%GUPTA,  
Yogendra M.**

Department of Physics Professor & Director,  
Institute for Shock  
Physics  
Washington State Univ.  
Pullman, WA 99164-2814  
Phone: 509-335-7217  
(o); 509-332-1333  
FAX: 509-335-6115  
e-mail:  
yngupta@wsu.edu  
Ph.D.: Washington  
State Univ. (1972)

Understanding the response of condensed materials to high dynamic pressures, with particular emphasis on real-time examination of mechanistic issues at different length scales (atomic to continuum length scales). The measurements involve time-resolved optical spectroscopy, x-ray diffraction, and continuum data in shock-wave experiments.

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**%%IYER, Savitri V.**

Department of Physics Assistant Professor  
SUNY at Geneseo Gen. Relativity (T)  
Geneseo, NY 14454 Phone: 585-245-5540  
(o)  
FAX: 585-245-5288  
e-mail:  
iyer@geneseo.edu  
Ph.D.: U. of Pittsburgh  
(1993)

General relativity, geometrical methods.

---

**%%JAGGI, Narendra K.** Department of Physics Professor

Illinois Wesleyan Univ.  
Bloomington, IL 61702-  
2900

CMP  
Phone: 309-556-3418 (o)

FAX: 309-556-3411  
e-mail:  
njaggi@titan.iwu.edu  
Ph.D.:

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**\*%%JAIN, Piyare L.**

Department of Physics  
SUNY at Buffalo  
Amherst, NY 14260

Professor  
NP(E), PF(E)  
Phone: 716-645-2538 (o);  
716-632-3716 (h)  
FAX: 716-645-2507  
e-mail:  
phyjain@buffalo.edu  
Ph.D.: Michigan State  
Univ. (1954)

Ultrarelativistic heavy-ion collision studies at CERN and BNL, looking for signatures of the quark-gluon-plasma transition.

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**\*%%JAIN, Jainendra**

Department of Physics  
Penn State University  
104 Davey Laboratory  
University Park, PA 16802

Professor  
CMP(T)  
Phone: 814-863-1162 (o)  
FAX: 814-865-3604  
e-mail: jain@phys.psu.edu  
Ph.D.: SUNY at Stony  
Brook (1985)

Condensed matter theory.

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**\*%%JASWAL, Sitaram S.**

Department of Physics  
University of Nebraska  
266 Behlen

Professor  
CMP(T), MP(T)  
Phone: 402-472-2787 (o);

Lincoln, NE 68588-0111

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FAX: 402-472-2879

e-mail:

sjaswal@unlserve.unl.edu

Ph.D.: Michigan State

Univ. (1964)

Electronic structure and properties of hard magnets, magnetic multilayers, and other complex solids.

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**\*%%JENA, Purusottam**

Department of Physics  
Virginia Commonwealth  
Univ.

Richmond, VA 23284-2000

Professor

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Phone: 804-828-8991 (o);  
804-741-7724 (h)

FAX: 804-828-7073

e-mail: jena@gems.vcu.edu

Ph.D.: Univ. California,  
Riverside (1970)

Defects in metals; clusters; electronic structure.

---

**%%KUMAR, Alok**

Department of Physics  
SUNY at Oswego  
Oswego, NY 13126

Associate Professor

AMOP(E+T)

Phone: 315-341-2695 (o);  
315-342-7512 (h)

FAX: 315-341-5434

e-mail:

kumar@oswego.edu

Ph.D.: Kanpur Univ. (1980)

Atomic inner shell ionization, including multielectron transitions; effects of chemical coordination on X-ray spectra. History of science, in particular India's contributions.

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**%KUMAR, Ravhi**

Department of Physics Research Associate



Left-right symmetric models of elementary particles; neutrino mass.

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<b>%%MOODERA, Jagadeesh S.</b>	NW14-2114  Massachusetts Inst. Tech. 170 Albany Street  Cambridge, MA 02139- 4307	Group Leader  CMP(E), MP(E) Phone: 617-253-5423 (o); 617-776-2076 (h) FAX: 617-253-5405  e-mail: moodera@mit.edu Ph.D.:
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Thin film magnetism, superconductivity, and tunneling. Spin-polarized and dependent tunneling: fundamental and applied phase change semiconductor materials (for future atomically resolved storage).

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<b>*%%PAKVASA, Sandip</b>	Department of Physics Univ. Hawaii at Manoa 2505 Correa Rd.  Honolulu, HI 96822	Professor  PF(T)  Phone: 808-956-2970 (o); 808-263- 4569 (h) FAX: 808-956-2930 e-mail: pakvasa@uhhepg.phys.hawaii.edu Ph.D.: Purdue Univ. (1966)
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Symmetries, weak interactions, CP violation, Fermion mass problem, neutrino physics (solar and other neutrinos), etc.

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<b>%%PANDE, Chandra S.</b>	Code 6325 Naval Research Laboratory 4555 Overlook Ave SW Washington, DC 20375- 5000	Section Head CMP(E+T), MP(E+T) Phone: 202-767-2744 (o) FAX: 202-767-2623  email:
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pande@anvil.nrl.navy.mil  
Ph.D: University of ??  
(1970)

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**\*%%PANDHARIPANDE, Department of Physics** Professor  
**Vijay R.**

University of Illinois	NP(T)
1110 W Green Street	Phone: 217-333-8079 (o); 217-344-6526 (h)
Urbana, IL 61801	FAX: 217-333-9819
	e-mail: vijay@rsm1.physics.uiuc.edu
	Ph.D.: TIFR, Mumbai (1969)

Nuclear many-body theory; quark models of hadrons; quantum liquids; neutron stars.

---

**\*%%PATHRIA, Raj** Dept. of Physics Professor  
**K.**

Univ. Waterloo	CP(T), CMP(T)
Waterloo, ON N2L 3G1	Phone: 519-885-1211 x 3624 (o); 519-725-5217 (h)
Canada	FAX: 519-746-8115
	email: rpathria@physics.watstar.uwaterloo.ca
	Ph.D.: Univ. of Delhi (1957)

(i) Statistical physics: phase transitions, quantum fluids, magnetic systems, polymer chains. (ii) Analytical evaluation of lattice sums.

---

**\*%%PATI, Jogesh C.** Dept. of Physics & Astronomy Professor  
Univ. of Maryland PF (T)

College Park, MD 20742    Phone: 301-405-6009 (o);  
301-262-1786 (h)  
FAX: 301-314-9465  
email:  
pati@physics.umd.edu  
Ph.D: University of  
Maryland (1960)

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<b>%%PENDYALA, Subra</b>	Physics Department SUNY Coll. at Fredonia Fredonia, NY 14063	Professor & Chair CMP, AMOP Phone: 716-673-3304 (o) FAX: 716-673-3347 e-mail: pendyala@fredonia.edu Ph.D.: Univ. of Western Ontario
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Positron physics, digital electronics.

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<b>%PINTO, Nicholas J.</b>	Dept. of Physics Univ. of Puerto Rico – CUH Station Humacao, PR 00791	Associate Professor CMP(E), MP(E)  Phone: 787-850-9381 (o); 787-744-1609 (h) FAX: 787-850-9308 email: nj_pinto@webmail.uprh.edu Ph.D.: Montana State Univ. (1992)
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Synthesis and characterization of synthetic conducting polymers.

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<b>%PRASAD, Satish Chandra</b>	Dept. of Radiation Oncology	Professor
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**%%RAJAGOPALAN, Raj** E5-02-11, Chem Biomol Eng Professor  
Natl Univ of Singapore CP(T), CMP(T)  
Block E5, 4 Engineering Dr 4 Phone: 65-68742186  
Singapore 117576 FAX: 65-67791936  
Singapore [cherajr@nus.edu.sg](mailto:cherajr@nus.edu.sg)  
Ph.D: Syracuse Univ. (1975)

Colloid physics; statistical thermodynamics (in particular, liquid state physics);  
polymer films.

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**%%RAJEEV, Sarada G.** Dept. Physics & Professor  
Astronomy  
University of Rochester PF(T)  
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585-473-3305 (h)  
FAX: 585-275-8527  
e-mail:  
[rajeev@pas.rochester.edu](mailto:rajeev@pas.rochester.edu)  
Ph.D.: Syracuse Univ.  
(1984)

Theoretical high energy physics, focusing on problems relating to quantum field  
theory and its mathematical foundations. Study of the large-N limit of Yang-Mills  
theories.

---

**%%RAMAVATARAM, Sathyavathi** 184 Idlewood Dr Retired  
Stamford, CT 06905 NP(E)  
Phone: 203-322-2983 (h)  
e-mail:  
[mayaleel@optonline.net](mailto:mayaleel@optonline.net)  
Ph.D.: Univ. of Manchester  
(1961)

Nuclear model development with emphasis on interpretation of experimental

data in terms of microscopic theories of the nucleus. Structure plus reaction theories.

---

<b>%%RAMPRASAD, Ramamurthy</b>	MS FPD22  Motorola 7700 South River Parkway Tempe, AZ 85284	Senior Scientist  CMP(T), MP(T) Phone: 480-755-5508 (o); FAX: 480-755-5055 e-mail: r.ramprasad@motorola.com Ph.D.: Univ. of Illinois, Urbana (1997)
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First principles studies of bulk and surface materials.

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<b>*@RAO, B.D. Nageswara</b>	Department of Physics Indiana Univ-Purdue Univ. 402 N. Blackford St.  Indianapolis, IN 46202- 3273	Professor and Chairman BP(E), CP(E)  Phone: 317-274-6897 (o); 317-297-3637 (h) FAX: 317-274-2393  Email: brao@iupui.edu Ph.D: Aligarh Muslim Univ. (1961)
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Structural characterization of active sites of various ATP-utilizing enzymes, with the goal of elucidating the molecular basis of enzyme catalysis.

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<b>*@RAU, A. Ravi Prakash</b>	Department of Physics Louisiana State Univ. Baton Rouge, LA 70803	Professor AMOP(T) Phone: 225-388-6841 (o); 225-767-0153 FAX: 225-388-5855 e-mail: arau@rouge.phys.lsu.edu Ph.D.: Univ. Chicago (1970)
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Electron correlations, extremely strong perturbations in atomic and optical physics. General construction of variational principles in mathematical physics. General solution of time-dependent operator equations with applications to intense laser-atom interactions and to manipulating qubits.

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<b>%%SAHA, Arunava</b>	Physics Division	Staff Scientist
	Thomas Jefferson Nat'l Lab 12000 Jefferson Ave.  Newport News, VA 23606	NP(E), PF(E) Phone: 757-269-7605 (o); 804-293-8098 (h) FAX: 757-269-7398 email: saha@jlab.org Ph.D.: Northwestern Univ. (1977)

Inclusive electron and hadron scattering to study isovector collective transitions, IBA-2 model, neutron transition densities, etc.; exclusive electron scattering to study medium modifications of the nucleon in nuclei, etc. Design of experiments and spectrometers for Hall A at CEBAF.

---

<b>%%SARMA, Bimal Kumar</b>	Department of Physics	Professor
	Univ. Wisconsin PO Box 413  Milwaukee, WI 53211	CMP(E) Phone: 414-229-6336 (o); 414-332-2944 (h) FAX: 414-229-5589 Email: bksarma@uwm.edu Ph.D: Northwestern Univ. (1980)

Experimental low-temperature physics; superconductivity.

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<b>%SEN, Surajit</b>	Department of Physics	Associate Professor
	SUNY at Buffalo Buffalo, NY 14260-1500	CMP(T) Phone: 716-645-2017x193 (o); 716-688-6078 (h) FAX: 716-645-2507

email: sen@nsm.buffalo.edu  
Ph.D.: Univ.of Georgia  
(1990)

Theoretical non-equilibrium statistical physics, nonlinear physics. Current research efforts include: shock propagation in granular beds; nonlinear acoustic imaging of buried objects; nanoprinting; shock absorption; slow relaxation in glassy materials; solitary wave crossing in discrete systems; and learning models.

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<b>SHARMA, Prakash C.</b>	Physics Department Tuskegee University Tuskegee, AL 36088	Professor CMP(T), MP(T) Phone: 205-727-8998 (o); 205-821-8229 (h) FAX: 205-727-8090  Ph.D.: Banaras Hindu Univ. (1972)
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Principal investigator for Naval Surface Warfare Center and Defence Nuclear Agency research projects; President, 1993 and 1994, Alabama Academy of Science.

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<b>SHASTRY, Sitaram</b>	Department of Physics SUNY - Plattsburgh Plattsburgh, NY 12901	Professor NP(E+T), Medical Physics Phone: 518-564-3158 (o); 518-501- 3070 (h) FAX: email: shastrs@splava.cc.plattsburgh.edu Ph.D.: Saha Institute (1966)
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<b>SHIVAMOGGI, Bhimsen K.</b>	Dept. of Mathematics  Univ. Central Florida	Professor  FD(T), PP(T)
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Orlando, FL 32816-6990      Phone: 407-823-2061 (o); 407-365-8276 (h)  
FAX: 407-823-6253  
e-mail:  
bhimsens@pegasus.cc.ucf.edu  
Ph.D.: Univ. of Colorado,  
Boulder (1978)

Hydrodynamics and hydromagnetic stability; nonlinear plasma waves; magnetic field reconnection; turbulence theory.

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<b>%%SINGH, Surendra Pal</b>	Dept. of Physics Univ. Arkansas Fayetteville, AR 72701	Professor & Chair AMOP(E+T) Phone: 501-575-5930 (o); 479-575-5930 FAX: 479-575-4580 e-mail: ssingh@uark.edu Ph.D.: Univ. Rochester (1982)
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Laser dynamics, nonlinear optics, and quantum optics. Study of quantum and classical coherence in optics.

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<b>*%%SINHA, Sunil</b>	Univ. of California at San Diego Department of Physics 9500 Gilman Drive La Jolla, CA 92093	Professor CMP(E) Phone: 858-822-5537 (o) FAX: 858-534-3501 e-mail: ssinha@physics.ucsd.edu Ph.D.: Cambridge Univ. (1964)
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X-ray and neutron scattering studies of condensed matter: complex fluids, superconductors, etc..

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**\*%%SREENIVASAN,  
Katepalli R.**

International Centre for  
Theoretical Physics  
Strada Costiera 11  
I-34014 Trieste  
Italy

Director  
FD(E+T)  
Phone:  
FAX:  
email: krs@ictp.it  
Ph.D.: IISc, Bangalore  
(1975)

Turbulent flows; transition to turbulence; chaotic phenomena in dynamical systems.

---

**\*%%SRINIVASAN,  
Rangaswamy**

UVTech Associates  
98 Cedar Lane  
Ossining, NY 10562

Senior Physicist  
CP(E)  
Phone: 914-941-9411 (o);  
914-962-2287 (h)  
FAX: 914-941-6254  
e-mail:  
Ph.D.: Univ. Southern  
Calif. (1956)

Interaction of laser radiation with materials, mainly organic solids.

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**\*%%SUDARSHAN,  
E.C. George**

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Ph.D: Univ. Rochester

Weak interaction physics; analytic continuation of normed vector spaces of quantum theory; spin-statistics theorem and TCP theorem.

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Ph.D: Univ. Idaho (1982)

Development of direct discharge molecular gas lasers in the infrared region and high -resolution molecular spectroscopy using direct-discharge and optically pumped molecular lasers in the far infra-red region.

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swaminat@uwm.edu  
Ph.D.: Univ. of Michigan  
(1993)

Group theory applied to nuclear structure; positronium formation;  
parameterizations of pion cross sections from proton-proton collisions.

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**\*%%TATA, Xerxes R.**

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395-0549 (h)  
FAX: 808-956-2930  
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tata@uhhepg.phys.hawaii.edu  
Ph.D.: Univ. of Texas, Austin  
(1981)

Collider phenomenology; physics beyond the Standard Model; weak scale supersymmetry; unification of interactions.

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<b>%%VALLURI, Sreeram</b>	Department of Mathematics Univ. of Western Ontario London, ON N6A 3K7  Canada	Adjunct Professor  PF(T), General Phys. (T) Phone: 519-661-2111, ext 6499 (o); 519-472-1842 (h) FAX: 519-661-2033 email: valluri@uwo.ca Ph.D.: Univ. of Regina, Canada (1975)
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Gravitational radiation: search algorithms; sequence transformations and their applications to coalescing binaries and the QED of strong fields; Newton's apsidal precession theorem, etc.

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<b>*%%VARSHNI, Yatendra Pal</b>	Department of Physics  Univ. Ottawa Ottawa, ON K1N 6N5  Canada	Professor  CP, CMP, AS Phone: 613-562-5800 (o); 613-234-6592 (h) FAX: 613-562-5190 e-mail: ypvsj@aix1.uottawa.ca  Ph.D.: Univ. of Allahabad (1956)
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Supersymmetric quantum mechanics;  $1/N$  method; shifted  $1/N$  method; WKB method; supersymmetric WKB method; screened potentials; diatomic potentials; quasars; red shifts; population inversion in plasmas.

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<b>%VENKATESWARAN, Uma Devi</b>	Department of Physics	Professor
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email: venkat@oakland.edu  
Ph.D: Univ. Missouri-  
Columbia (1985)

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<b>%%VYAS, Reeta</b>	Physics Department Univ. of Arkansas Fayetteville, AR 72701	Associate Professor AMOP(T), NP(T) Phone: 501-575-6569 (o); 501-521-1179 (h) FAX: (501)575-4580 email: rvyas@uark.edu Ph.D: SUNY at Buffalo (1984)
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Quantum optics: squeezed states, photon counting statistics, interaction of radiation with matter, etc. Nuclear physics: meson exchange effects, nuclear reaction three-body problem.

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<b>%%WALI, Kameshwar C.</b>	201 Physics Bldg. Syracuse University Syracuse, NY 13244-1130	Professor PF(T) Phone: 315-443-9113 (o); 315-637-5978 (h) FAX: 315-443-9103 e-mail: wali@physics.syr.edu Ph.D.: Univ. of Wisconsin (1959)
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Grand unified theories; a unified approach to Gauge and Higgs fields in the framework of noncommutative geometry; monopoles in the presence of gravity.

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**\*%/%YODH, Arjun G.**    Department of Physics    Professor  
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FAX: 215-898-2010  
e-mail:  
yodh@dept.physics.upenn.edu  
Ph.D.: Harvard Univ. (1986)

Diffusing light probes of complex fluids and biological tissues; colloids and colloidal assembly; nonlinear optical spectroscopy of solid-solid interfaces; femtosecond vibrational spectroscopy of adsorbates on metal surfaces.

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**\*%/%YODH, Gaurang B.**    Department of Physics    Professor  
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Irvine, CA 92717    Phone: 714-824-6660 (o);  
714-854-2393 (h)  
FAX: 714-824-7478  
email:  
yodh@master.ps.uci.edu  
Ph.D.: Univ. Chicago (1955)

Search for emission of ultra-high-energy radiation from astrophysical compact objects using the CYGNUS air shower telescope. Study of behavior of particle interactions at extremely high energies in cosmic rays and at future accelerators.

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