

Curriculum vitae

PERSONAL DATA

Name : SOFFER Jacques
Date of Birth : May 28, 1940
Place of Birth : Marseille, France
Nationality : French
Marital Status : married, three children
Home address : Le Zenon (A) Ave. Campagne Berger
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EDUCATION AND CAREER

1958 – 1963 *Licences Physics and Maths, University of Marseille
1965 *Thèse de 3^{ème} cycle, University of Marseille
1969 *Thèse de doctorat d'Etat es Sciences, University of Marseille

1963 – 1964 Stagiaire de Recherche CNRS
1964 – 1969 Attaché de Recherche CNRS
1969 – 1976 Chargé de Recherche CNRS
1976 – 1993 Directeur de Recherche 2^{ème} Classe CNRS
1993 -- 2006 Directeur de Recherche 1^{ère} Classe CNRS
2007 -- Adjunct Professor, Temple University

ADMINISTRATION

1986 – 1993 Director of the Centre de Physique Théorique, CNRS Marseille

INVITED LONG TERM VISITS (6 months of more)

Jan.1966 – Sept.1967 Maryland University, USA
Research Fellow in the Physics Department
In the group of Prof. J. Sucher

Jan.1969 - June 1969 Cambridge University, Great Britain
Research Visitor at the Cavendish Laboratory
In the group of Prof. R. Eden

Oct. 1969 – Sept.1971 CERN, Geneva, Switzerland
Fellow at the Theory Division

Oct.1971 – Sept.1972 Weizmann Institute, Rehovot, Israël
Post doctoral Fellow in the Physics Department
In the group of Prof. H. Harari

April. 1979 – Oct.1980 CERN, Geneva, Switzerland
Scientific “Attaché” at the Theory Division

Oct. 1980 – April 1981 University of Lausanne, Switzerland
Associate Professor

OTHER SHORT VISITS (1 to 2 months)

1973 (2 months) CERN, Theory Division, Geneva (Switzerland)
1974 (1 month) Univ. College London (Great Britain)
1974 (1 month) Argonne National Laboratory, Boston, Maryland (USA)
1975 (2 months) Argonne National Laboratory, Boston, Maryland (USA)
1976 (1 month) Weizmann Institut, Rehovot (Israël)
1978 (2 months) Kyoto, Tokyo, Hiroshima, KEK Tsukuba (Japon)
1981 (1 month) Lisbon (Portugal)
1981 (1 month) Berkeley, Los Alamos, Minneapolis, BNL (USA)
1982 (2 months) BNL (USA)
1983 (1 month) Dublin (Ireland), Brighton (Great Britain)
1985 (2 months) Boston, Ann Arbor, Providence, BNL (USA)
1986 (1 month) Weizmann Institut, Rehovot, (Israël)
1986 (2 months) Berkeley, SLAC, BNL (USA)
1987 (1 month) Canton, Xian, Shanghai, Beijing (Rep.Pop. of China)
1988 (1 month) ITP, Santa Barbara, USA
1988 (2 months) BNL, State College, Minneapolis (USA)
1989 (1 month) Instituto de Fisica Teorica, Sao Paulo (Brazil)
1990 (2 months) Fermi Lab., BNL (USA)
1993 (1 month) CERN, Theory Division, Geneva (Switzerland)
1993 (1 month) Instituto de Fisica Teorica, Sao Paulo (Brazil)
1993 (1 month) BNL (USA)
1994 (1 month) CERN, Theory Division, Geneva (Switzerland)
1995 (1 month) CERN, Theory Division, Geneva (Switzerland)
1996 (1 month) UTFSM, Valparaiso (Chili), Instituto de Fisica Teorica, Sao Paulo (Brazil)
1997 (1 month) BNL (USA)
1998 (1 month) CERN, Theory Division, Geneva (Switzerland)
2000 (1 month) CERN, Theory Division, Geneva (Switzerland)
2001 (1 month) BNL (USA)
2003 (1 month) CERN, Theory Division, Geneva (Switzerland)
2005 (1 month) CERN, Theory Division, Geneva (Switzerland)

CURRENT RESEARCH INTERESTS

- Phenomenology in particle physics
- Polarization phenomena at high energy
- Parton distributions, structure functions
- Positivity constraints
- Theoretical interpretation of data from JLab and RHIC-BNL spin programmes

I have several articles in preparation and we have just finished a Physics Reports entitled:

“Spin Observables and Spin Structure Functions: Inequalities and Dynamics”

in collaboration with Xavier ARTRU, Mokhtar ELCHIKH, Jean-Marc RICHARD and Oleg TERYAEV.

Physics Reports 470, 1-92 (2009)

MOST SIGNIFICANT PUBLICATIONS

My list of publications contains 286 papers with a total of 4000 citations in SLAC-SPIRES. Half of these articles are published in International Journals (36 Physics Letters B, 37 Physical Review D, 20 Nuclear Physics B, 13 Physical Review Letters, 11 European Physical Journal C, 3 Physics Reports, etc,...)

I report below only a few significant publications with a total of more than 1000 citations in the recent literature :

- Polarization Phenomena in Hadronic Reactions
(with BOURRELY C. and LEADER E., Physics Reports 59, 95-297, 1980)
- Impact-picture expectations for very high energy elastic reactions
(with BOURRELY C. and WU T.T., Nuclear Physics B 247, 15-28, 1984)
- Spin Effects at Supercollider Energies
(with BOURRELY C., RENARD F. and TAXIL P., Physics Reports 177,319-407, 1989)
- Spin Effects with Polarized Protons at RHIC
(with BOURRELY C. and GUILLET J.PH, Nuclear Physics B 361, 72-92, 1991)
- Polarized Protons at RHIC
(with BUNCE G., JAFFE R., UNDERWOOD D., YOKOSAWA A., ET AL, Particle World 3, 1-12, 1992)
- Positivity Constraints for Spin-Dependent Parton Distributions
(Physical Review Letters 74, 1292-1994, 1995)
- Prospects for Spin Physics at RHIC
(with BUNCE G., SAITO N. and VOGELSANG W., Ann.Rev.Nucl.Part.Sci.50, 525-575, 2000)