

Remembering Adelchi Fabrocini (1951-2006)



- **Born on August 27, 1951** in Sepino (Campobasso)
- **June 1977:** *Laurea* in Physics at the University of Pisa with the degree *summa cum laude*. Thesis title: “Variational calculations of bosonic systems with an infinite number of particles”
- **From 1977:** associated to the INFN-Pisa branch
- **From September 1978:** “Assistente incaricato” in the Engineering Faculty of the University of Pisa
- **From October 1981:** “Ricercatore confermato” in the same faculty
- **1985:** “Angelo della Riccia Foundation” award for young research physics theoreticians

From June 1985 until July 1987: Post Doctoral Research Associate in the University of Urbana-Champaign (IL)

In July-August 1989: Visiting Professor there





- **November 1992:** Associate Professor of Nuclear Physics in the Faculty of Science of the University of Pisa
- **1990-1993:** local coordinator for the MURST national project “Fisica Teorica del Nucleo e di Sistemi a più Corpi”
- **1994:** Italian coordinator for a MURST program of collaboration between Pisa and Barcelona Universities
- **December 1995 – February 1996:** Visiting Scientist at CEBAF (VA)
- **2000:** Full Professor of Nuclear Physics in the Physics Dep. of the University of Pisa



SIF Congress
Lecce 1994

Manchester 2000



Teaching activity (main):

- *Fisica 1* for the Engineering students and in the latest years for the Physics students
- *Fisica Nucleare e Istituzioni di Fisica Nucleare* for the Physics students

As a Univ. teacher, he interacted with a **large number of students**, always establishing **excellent relations** with them. His teaching activities were **highly appreciated** by all of his students and recognized by his colleagues.

- **Supervisor** of several degree theses, in the research field of strongly interacting many-body systems
- *Controrelatore* for many other theses in the field of Theoretical and Condensed Matter Physics.

When you have to do this in Finland ...



Research activity

- Microscopic study of many-body strongly interacting nuclear systems
- Development of microscopic techniques to study these systems within a realistic approach



Correlated basis functions (CBF) with realistic NN + 3N interaction applied to

- Nuclear and neutron matter
- Doubly magic nuclei (ground state and reaction processes)

Main results:

- Derivation of a **microscopic EoS for nuclear matter** and its application to relativistic **electron scattering off heavy nuclei and nuclear matter**
- Study of the **inclusive longitudinal and transverse response functions for nuclear and neutron matter**
- Application of CBF with realistic NN+3N potentials to **doubly magic nuclei**
- Generalization of the above methods to **liquid helium**
- Application of CBF to a microscopic study of **Bose-Einstein condensates of alkaline atoms in Harmonic traps**

Publications: about 100 articles in international scientific journals and Conference proceedings.

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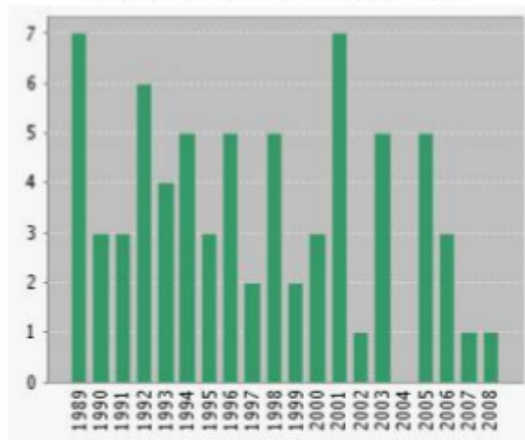
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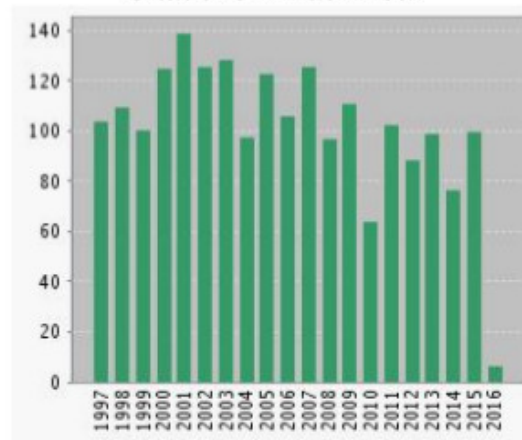
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Conferences and Workshops organizer:

- 10 editions of the “**Cortona**” meeting
- One of the promoter of the Elba International Physics Center in Marciana Marina (Elba Island) where he organized 9 editions of the “**Electron-Nucleus Scattering**” Workshop, one workshop on “Two-nucleon emission reactions” and one “Workshop on Monte Carlo methods in theoretical physics”
[He will be remember on July 1, 2016, at this edition of the “Elba meeting”]
- **Summer school** on “Microscopic Quantum Many-Body Theories and their Applications” (Abdus Salam Center for Theoretical Physics – Trieste) in September 2001
- Member of the **International Advisory Committee** for the Series of International Conferences on Recent Progress in Many-Body Theories

Referee of several international physics journals

Several profitable **scientific collaborations**:

- **Italy** (Univ. of Lecce, Sissa, INFN-Genova, INFN-Roma 1)
- **Europe** (Univ. of Basel, Barcelona, Granada, Athens)
- **USA** (Argonne Nat. Lab., Jefferson Lab.)

“We would like again to recall the **enormous capacity** of Adelchi in contributing to the diverse teaching, scientific and organizational activities generally required in the everyday life of the Physics Department in the University of Pisa combined with the **simplicity and cordiality** always demonstrated in his relations with other people.”

“His death *will prove* to be a **serious loss** for the University of Pisa, and for the International Many-Body Physics community. He will certainly be remembered with **unbounded gratitude and affection** by all those who knew him and had the fortune to have his friendship and collaboration.” [Proceedings of the 11th Conference on Problems in Theoretical Nuclear Physics - 2007]

One way to remember him: **“Adelchi Fabrocini” Award – III edition**



Thanks to G. Co' for the beautiful photos from <http://www.dmf.unisalento.it/~gpco/adelchi/adelchi.html>