

## **STEFANO BARONI**

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Full professor at SISSA, Trieste and Director of the DEMOCRITOS National Simulation Center of the Italian INFN (Trieste)

SISSA, via Beirut 2-4, 34014 Trieste Grignano, Italy  
tel: +39-0403787406 fax: +390403787528  
e-mail: baroni@sissa.it

### **BORN**

1955, Viareggio (Italy)

### **EDUCATION**

1978, 'Degree Dottore in Fisica', Pisa (Italy)

### **PROFESSIONAL EXPERIENCE**

1979-1980: CNR fellowship at EPFL, Lausanne (Switzerland)

1980-1984: Post-doc ('assistant') at EPFL.

1984-1988: Assistant professor ('ricercatore') at the University of Trieste (Italy).

1988-1999: Associate professor at SISSA, Trieste

1999-today: Full professor at SISSA, Trieste

2002-today: Director of the DEMOCRITOS National Simulation Center of the Italian INFN (Trieste)

### **VISITS AT OTHER SCIENTIFIC INSTITUTIONS**

1991: Visiting scientist at IRRMA, Lausanne

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1992: Visiting scientist at 'Forum di Fisica Teorica' of the INFN, Pisa (Italy)

1993: Visiting scientist at IRRMA, Lausanne

1994: Visiting scientist at the ITP, Santa Barbara (USA)

1994-1998: Director of the CECAM, Lyon (France)

2002: Visiting professor at the Chemistry Department of the Princeton University (USA).

### **SCIENTIFIC INTERESTS**

- Vibrational properties of extended systems
- Electronic, structural, and dynamical properties of metal surfaces
- Thermal properties of extended systems, studied within the quasi-harmonic approximation
- Pressure-induced lattice instabilities of materials
- Quantum simulations of interacting fermions and bosons
- Algorithms for large-scale electronic-structure calculations

## SCIENTIFIC PRODUCTION

- About 140 scientific papers published in international journals and refereed conference proceedings. These papers have been cited in more than 1,400 other scientific articles in the international literature (roughly 2,100 hits) over the past 10 years (source: ISI, February 2001).

- Publications:

- 1 A. Autore"titolo", titolo, anno
- 2 A. Autore"titolo", Rivista, numero, pagina (anno).
- 3 A. Autore"titolo", titolo, anno
- 4 A. Autore"titolo", Rivista, numero, pagina (anno).
- 5 A. Autore"titolo", titolo, anno
- 6 A. Autore"titolo", Rivista, numero, pagina (anno).
- 7 A. Autore"titolo", titolo, anno
- 8 A. Autore"titolo", Rivista, numero, pagina (anno).
- 9 A. Autore"titolo", titolo, anno
- 10 A. Autore"titolo", Rivista, numero, pagina (anno).
- 11 A. Autore"titolo", titolo, anno
- 12 A. Autore"titolo", Rivista, numero, pagina (anno).
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## OTHER PROFESSIONAL ACTIVITIES

Referee of several research funding agencies, including the US NSF and the Italian 'Comitato dei Garanti'; member of the Scientific Council of the Theory Section of the Italian INFM; organizer of several professional meetings at CECAM (France), ICTP (Italy), and of symposia at the annual meeting of the Italian INFM; referee of several scientific journals, including the Physical Review (B and Letters).