

# Condensed Matter and Statistical Physics Section



# From ICTP web page



## Nadia Binggeli

Research Scientist  
binggeli@ictp.it  
LB Room 299  
+39 040 2240 453  
» [personal web page](#)

Synchrotron  
radiation  
physics



## Ralph Gebauer

Research Scientist  
rgebauer@ictp.it  
LB Room 224  
+39 040 2240 344  
» [personal web page](#)

DFT,  
Energy  
research



## Mikhail Kiselev

Research Scientist  
mkiselev@ictp.it  
LB Room 235  
+39 040 2240 343  
» [personal web page](#)

Kondo physics,  
quantum dots,  
thermoelectricity



## Matteo Marsili

Research Scientist  
marsili@ictp.it  
LB Room 225  
+39 040 2240 461  
» [personal web page](#)

Statistical  
physics,  
Models of  
economics



## Markus Mueller

Research Scientist  
markusm@ictp.it  
LB Room 244  
+39 040 2240 350  
» [personal web page](#)

Glassiness in  
condensed matter,  
Many-body  
localization



## Sandro Scandolo

Senior Researcher  
scandolo@ictp.it  
LB Room 248  
+39 040 2240 209  
» [personal web page](#)

Ab-initio molecular  
dynamics,  
materials science,  
planetary physics



## Antonello Scardicchio

Research Scientist  
ascardic@ictp.it  
LB Room 246  
+39 040 2240 244  
» [personal web page](#)

Hard problems of  
statistical mechanics,  
computer science  
quantum computing

## RESEARCH STAFF ASSOCIATES

## Alexander Nersesyan

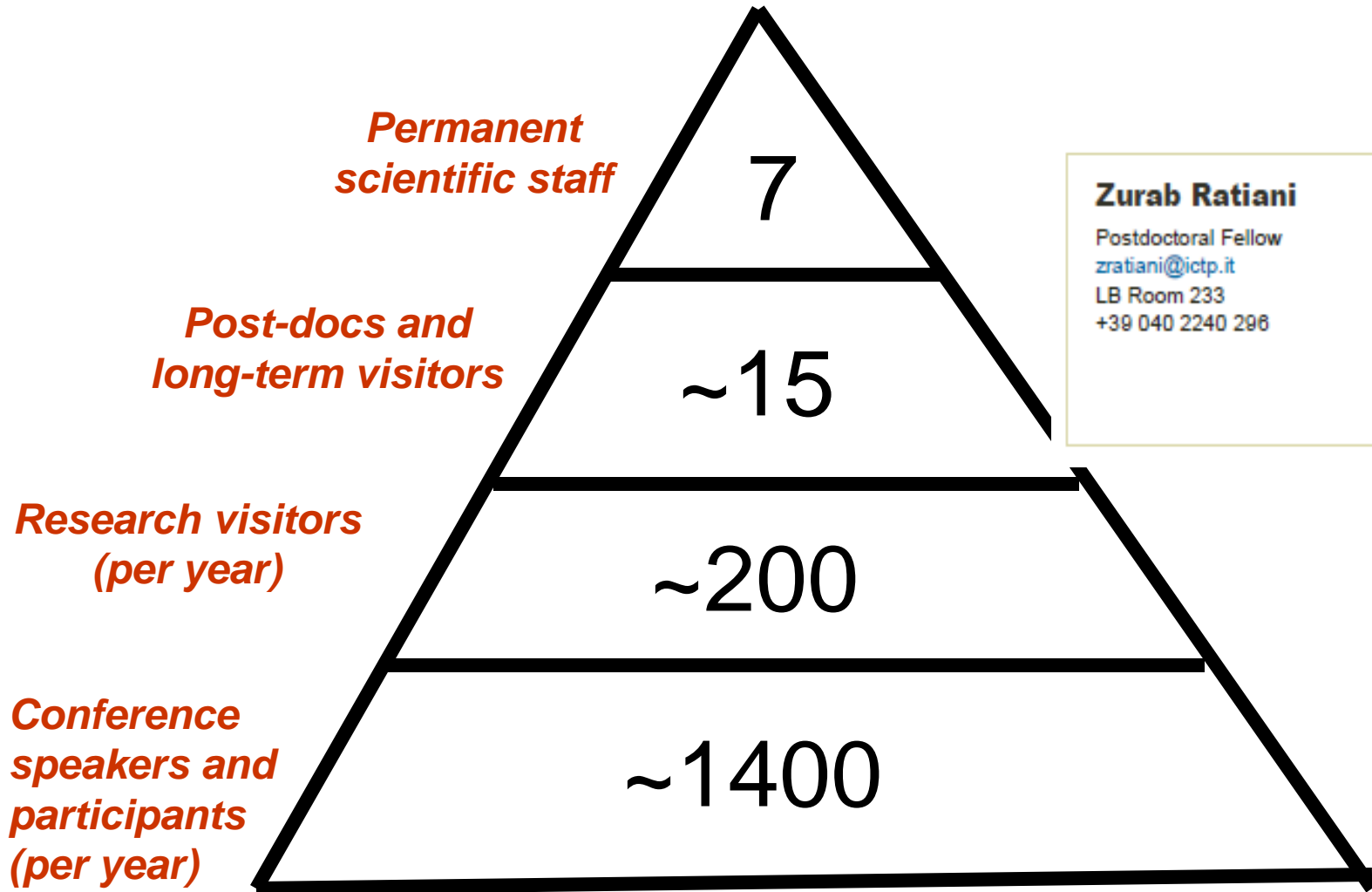
Research Staff Associate  
aners@ictp.it  
LB Room 247  
+39 040 2240 279  
» [personal web page](#)

Low-dimensional  
quantum systems,  
quantum field theory  
in Condensed matter

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# CM&SP Section



**Zurab Ratiani**

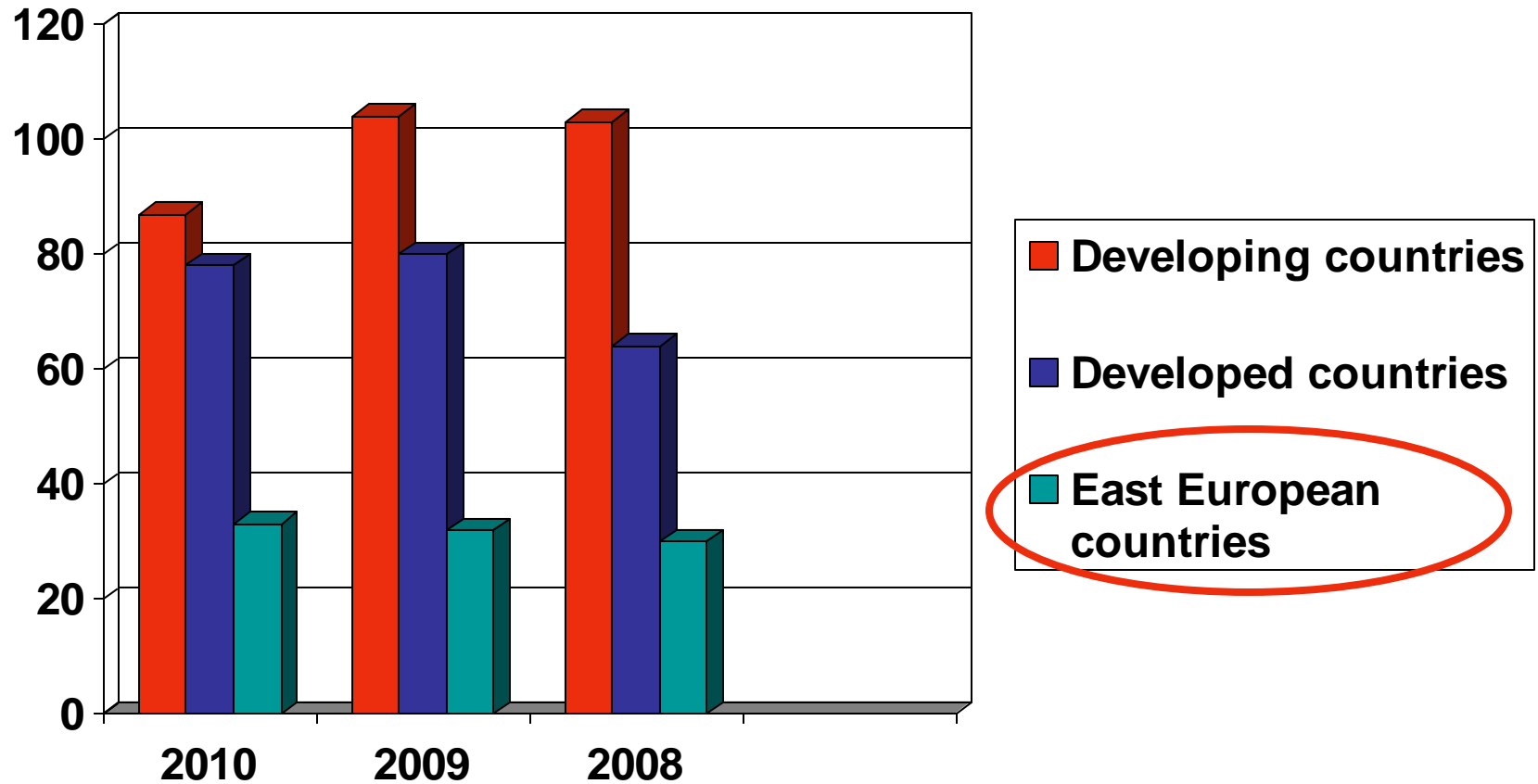
Postdoctoral Fellow

[zratiani@ictp.it](mailto:zratiani@ictp.it)

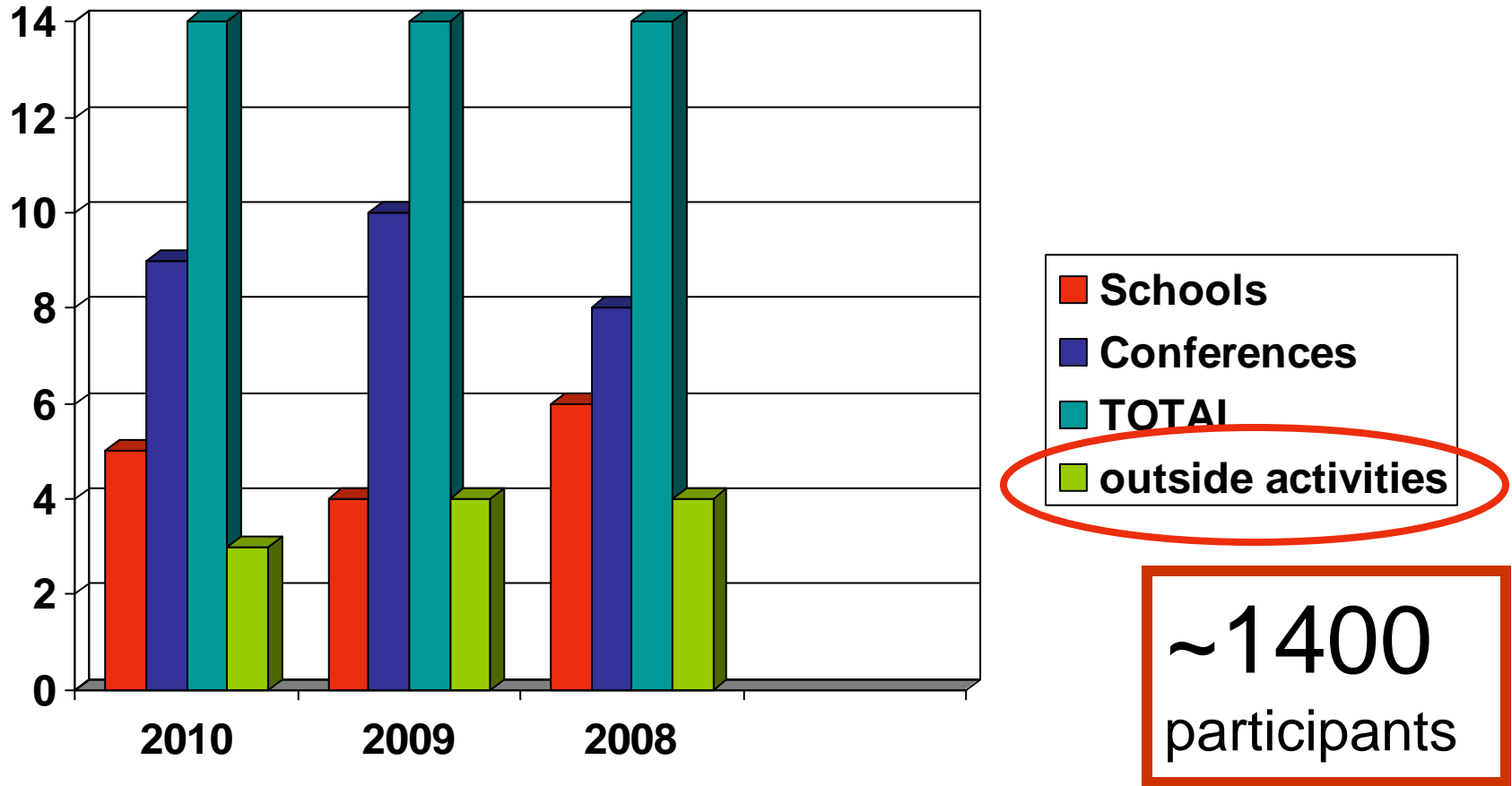
LB Room 233

+39 040 2240 296

# Research visitors to CM&SP Section

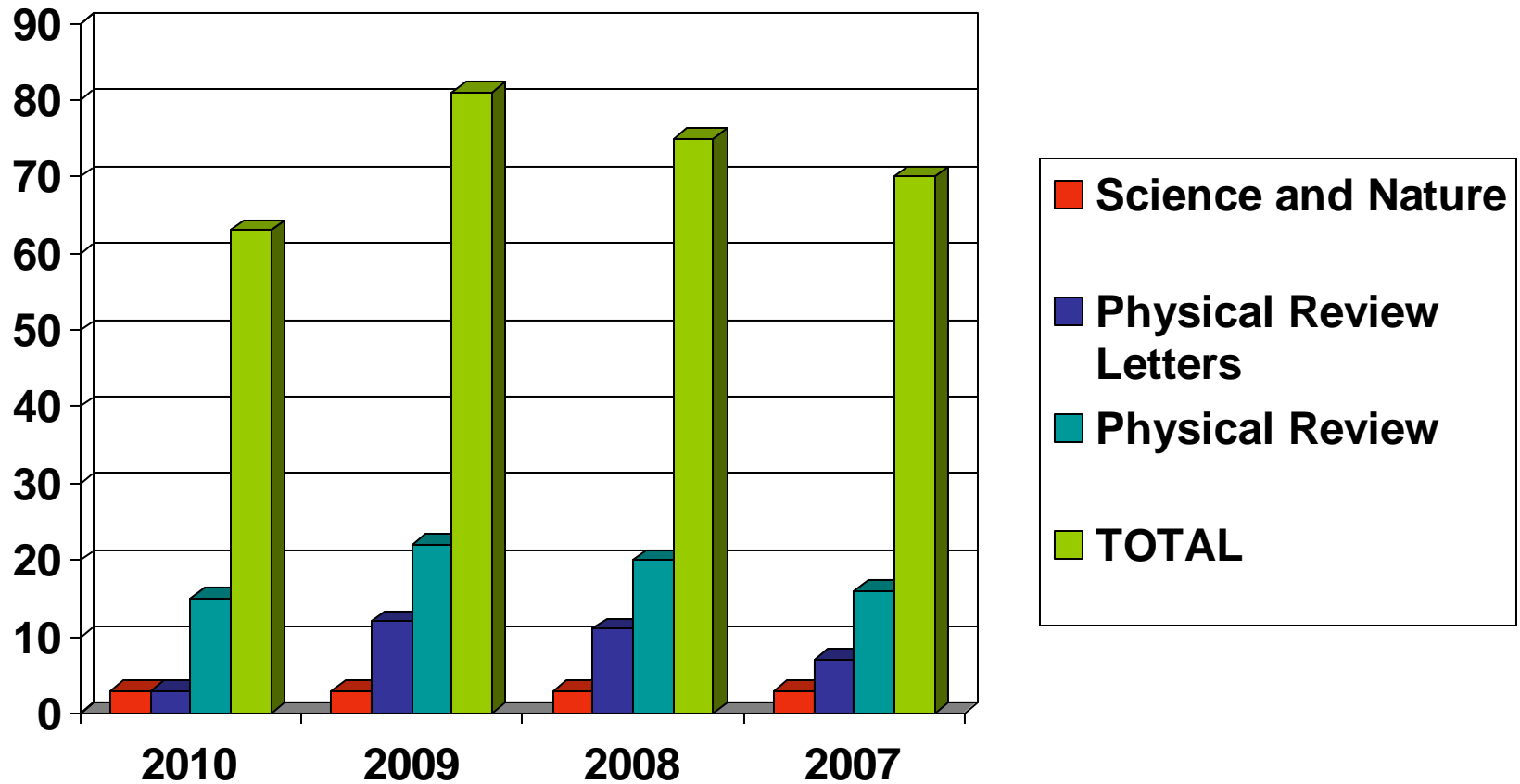


# Conferences and Schools organized by CM&SP section



# Publications with affiliation at ICTP

(only high-impact, peer-review journals; no proceedings)



# Possible co-operation

- Organizing outside Schools and Conferences
- Setting up modern research directions through exchange of visitors
- Sharing of costs in the participation of the ICTP activities

# Regional Center

- Strong local expertise and organization
- Good connection to the countries of the region
- Strong support from local authorities
- Dedicated people at all levels

All points need to be checked experimentally!



# Highlighting of our works

- Highlighting at <http://physics.aps.org>: out of ~100 highlighted papers in 2009 four were done by members of CM&SP section
- The paper on Quantum Espresso published in 2009 by now collected 450 references

# Citation according to ISI

- Scandolo S.: total: 3000, h-29
- Kravtsov V.: total: 2000, h-25
- Marsili M.: total: 1600, h-21
- Scardicchio A.: total: 650, h-19
- Muller M.: total: 500, h-11
- Gebauer R.: total: 650, h-8
- Kiselev M.: total: 215, h-8