



4th MAP-Fis Research Conference

20 January 2012
University of Minho

D. S. Schmool
(University of Porto)



<http://www.map.edu.pt/fis>



What is MAP-Fis?

- The joint doctoral programme in Physics between the Universities of Minho, Aveiro and Porto
- The programme started in 2008
- MAP programmes
 - MAP-i (MAP Doctoral Programme in Computer Science)
 - MAP-tele (MAP Doctoral Programme in Telecommunications)
 - MAP-fis (MAP Doctoral Programme in Physics)
 - MAP-bioplant (MAP Doctoral Programme in Biology of Plants)

(<http://www.map.edu.pt/>)

Evolution of MAP-Fis

Number of Applicants*



*Not including students transferring to MAP-Fis

> 20 PhDs completed in the MAP-Fis programme

Overview of MAP-Fis

Year	Academic Component			
1	Semester 1	Advanced Topics in Physics I (TAF I)		
	Semester 2	Essay [#]	TAF II*	Business studies**
2	Thesis Research			
3	Thesis Research			
4	Thesis Research + Submission and Defense			

[#]Deadline 23 March 2012 (U. Aveiro) – more information will be sent soon

*International School or short course in area of research (should be completed by end of 2012)

**Biennial

Scientific Research in MAP-Fis

Main areas of research	Minho	Aveiro	Porto
Solid State Physics/ Nanotechnologies/ Materials	✓	✓	✓
Gravitation, Cosmology and Particle Physics	✓	✓	✓
Optics and Photonics	✓	✓	✓
Oceanography and Meteorology		✓	
Theoretical Physics	✓	✓	✓

MAP-Fis is...



We are:

PhD Students	~ 100
Researchers	~ 90
Staff	~ 140
Research centres	CFUM, I3N, CICECO, CESAM, CIDTFF, CFP, INESC-P, IFIMUP-IN, CAUP (Including 5 Associate Laboratories)

Scientific Committee of MAP-Fis

D. S. Schmool (Univ. Porto, Prog. Director)*



O. Bertolami (Univ. Porto)

A. J. Neves (Univ. Aveiro)*



L. D. Carlos (Univ. Aveiro)

M. S. Belsley (Univ. Minho)*



A. Onofre (Univ. Minho)

M. Costa (Univ. Porto - previous member)

*Executive committee members

Programme of Conference

09:00 Welcome

09:30 **Session 1:** Optics and Photonics

10:45 Coffee Break (Poster Session)

11:15 **Session 2:** Gravitation, Cosmology and Particle Physics

12:15 **Session 3:** Physics of Complex Networks

13:00 Lunch

14:30 **Session 4:** Meteorology and Oceanography

15:15 **Session 5:** Advanced Materials Science

16:15 Coffee Break (Poster Session)

17:00 **Session 6:** Advanced Materials Science

18:15 Invited Talk

18:45 Final Remarks

19:30 Workshop Dinner: Location: (University of Minho, Campus de Gualtar, Braga – Restaurante Panorâmico)

Conference organisers

M. S. Belsley (Univ. Minho)

A. Onofre (LIP/Univ. Minho)

R. Ribeiro (Univ. Minho)

N. Castro (LIP/Univ. Minho)

Many thanks