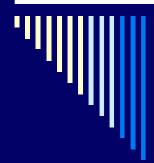


Workshop on Relativistic plasma physics

Loukas Vlahos
Demetrios Papadopoulos
(Co- Organizers)



Main topics

- The purpose of the workshop
- Our research program
- Who is involved
- Suggested format of the workshop
- □ Feature plans and ideas



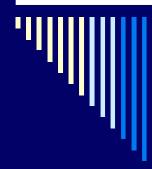
The purpose of the workshop

- On a multi-discipline research area like Relativistic astrophysical plasmas, most of us are at the same time experts and students (Education).
- So we are all here to learn from each other, but we also expect to interact,
 - Collaborate and exchange ideas
 - Constructive criticism and suggestion
- These are the main reasons for having the workshop



Our research program

- We have been funded to carry on research on:
- "The non-linear interaction of Gravitational Waves with plasmas"
- There is always a good part on writing a research proposal- MONEY –
- It gives you the means to do this kind of meetings –and focus on specific research areas....



Our research program

We plan to work on three main areas:

- GW interacting with plasma in the vicinity of their source
- GW in the early universe
- Plasma instabilities in magnetized and expanding universe (e.g. Jeans instability)



Who is involved (Thessaloniki)











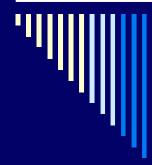






We interact with....

- Prof. Nikolaos Spyrou
- Prof Kostas Kokkotas
- Prof. Simos Ichtiaroglou
- □ Prof. Nikos Stergioulas
- □ Prof. Harrys Varvoglis
- Lecturer George Voyatzis
- Our colleagues have their own research proposals (mainly on nonlinear processes) but they are closely associated with our work



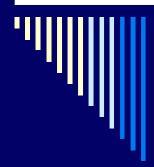
We currently collaborate (or plan to start soon collaboration) with...

- Prof. Jan Kuijpers (Netherlands)
- Ptrof. Gert Brodin (Sweden)
- Prof Paul Esposito (USA)
- Dr. Mattias Marklund (Sweden)
- Dr Christos Tsagas (UK)
- Mr Joachim Moorgat (Netherlands)
- Mr Andreas Kalldberg (Sweden)
- and we hope to expand these collaborations with more groups in Europe and Greece



Suggested format for the workshop

- Informal....
- □ Please interrupt and ask questions
- Please give emphasis on the educational character of this meeting



Feature plans and ideas

- We propose to have another workshop like this in Netherlands or Sweden next year
- □ Can we form the core (AUTh, KUNijmegen, UUmea) for a potential European Network at the coming years?
- Maybe in the near feature the lecture notes will be on a level to form the basis for text book on this topic.



Dedication

- □ Prof. Vassilis Xanthopoulos, (one of the brightest students of this department, student and latter colleague of Chandrashekhar in the U of Chicago), was a dear friend and colleague killed several years ago from a mentally unstable student as he was presenting a seminar on issues related with our workshop.
- We dedicate this workshop to his memory!