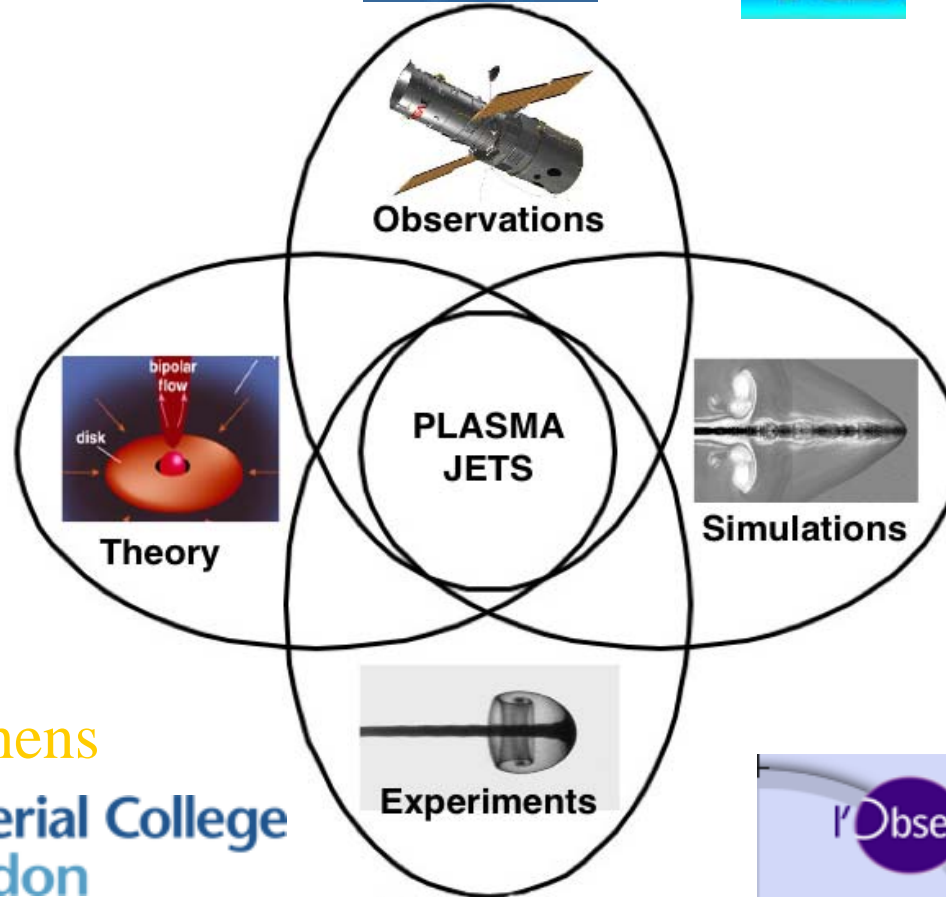




University of Athens

Imperial College
London



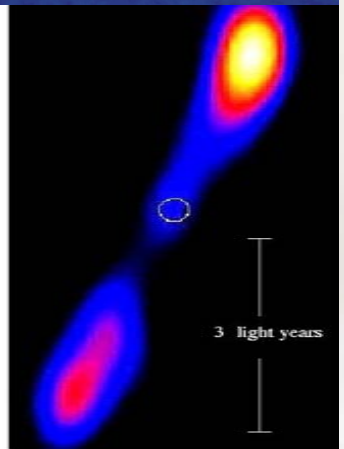
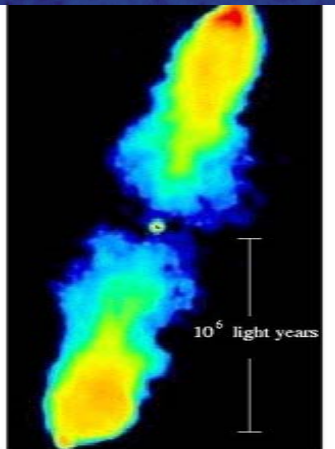
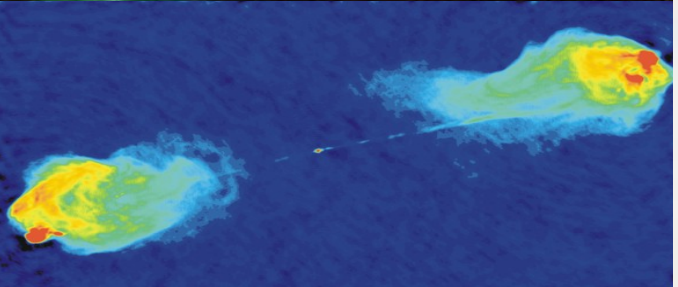


PL.A.T.O.N.S.: PLASMA ASTROPHYSICS, THEORY, OBSERVATIONS, NUMERICAL SIMULATIONS

Research Group

at the Section of Astrophysics, Astronomy and Mechanics
Department of Physics, University of Athens, Panepistimiopolis, 157 84
Zografos, Athens, Greece

Self-similarity of cosmical jets



PLATONS: Representative results in last 10 years

- Classes of analytical solutions for MHD jets/winds via a nonlinear separation of the variables (Vlahakis+Tsinganos, 298, 777, 1998, etc)
- Critical points, characteristics and the problem of causality in MHD outflows (Tsinganos et al, MNRAS 283, 811, 1996)
- Classification of observed outflows in terms of efficiency of magnetic rotator (Sauty et al, AA, 348, 327, 1999, Sauty et al, AA, 389, 1068, 2002, etc)
- Topological stability of collimated outflows (Vlahakis + Tsinganos, MNRAS, 292, 591, 1997)
- Two-component jet simulations (Bogovalov + Tsinganos 2001, MNRAS, 325, 249, Matsakos et al 2008, A+A 477, 521, Stute et al, 2008, A+A, submitted)
- Resistive MHD simulations (Cemeljic et al, 2008, MNRAS, in press),

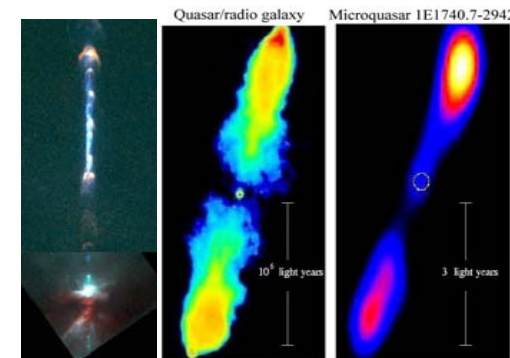
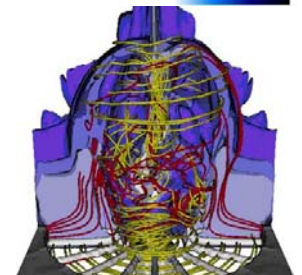
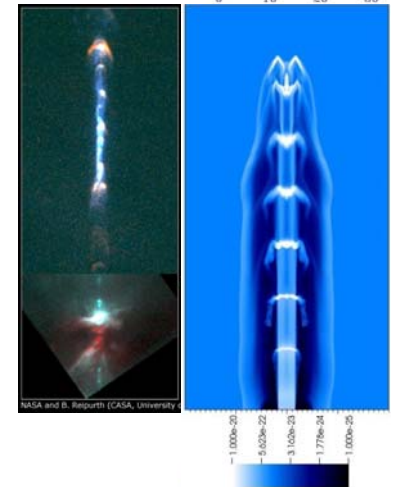
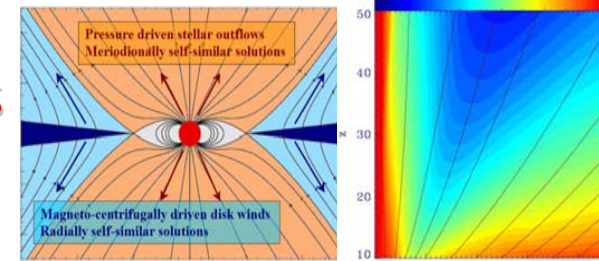
Protostellar Jets in Context: Topics

Jet/wind-launching region: Theories, observations, and numerical simulations addressing the origin of atomic and molecular jets and winds in young stars, the physics of the star/disk interaction zone, the connection with accretion disks and the role of jets in removing angular momentum.

Propagation, cooling, stability, environmental impact of jets

Laboratory experiments

Similarities and differences between protostellar jets and their astrophysical siblings





Protostellar Jets in Context

Rhodes, 6-12 July 2008

SESSIONS

Session 0	Introductory Reviews	Monday
Session I	The star/jet/disk system	Monday
Session II	Jet launching	Tuesday
Session III	Observational constraints on jet launching	Wednesday
Session IV	Propagation, cooling, stability, environmental impact of jets	Thursday
Session V	Molecular Outflows and turbulence injection by jets	Friday
Session VI	Jetset ESR presentations	Saturday



Special talks:

Funding opportunities under the EU
Framework Programme FP7 (R. Bilyalov)

International Year of Astronomy 2009
(T. Lery)

The Antikythera Mechanism: Astronomy
and Technology in Ancient Greece
(J. Seiradakis)

Practical Matters

Conference Dinner is on Thursday evening in the old town of Rhodes

Various excursions during the week, e.g., the Rhodes half Day City Tour.

Speakers : pls give your presentation to Titos Matsakos the previous day of your talk for downloading at PC

Posters: Visit the posters room during coffee breaks !

Proceedings will be published- hopefully by the end of this year !



Protostellar Jets in Context

Rhodes, 6-12 July 2008

@ J. Bally and N. Smith

Special thanks for the organization
of this conference go to:

- Scientific Organising Committee
- Tom Ray (Jetset Coordinator, co-chair)
- Sylvie Cabrit (Jetset Science Manager)
- Jetset/FP7 for funding this conference
- LOC (T. Matsakos, M. Stute, P. Tzeferakos)
- Eileen Flood, Emma Whelan
- my Un. of Athens students
- Ulysses Tours (Tassos & Alexia Afentoulidis)



Protostellar Jets in Context :
hope you enjoy it !