First Announcement
of an
International Conference

Binaries – Key to Comprehension of the Universe

Brno, Czech Republic

8 to 12 June 2009

On the occasion of the 90th anniversary of Masaryk University foundation and International Year of Astronomy a conference will be held from 8 to 12 June, 2009 in the estates of Masaryk University in the Moravian city Brno, Czech Republic.

MEETING ORGANIZERS

- Dept. of Theoretical Physics and Astrophysics, Faculty of Science, Masaryk University, Brno, Czech Republic
- Astronomical Institute, Charles University, Prague, Czech Republic
- Astronomical Institute, Academy of Sciences of the Czech Republic, Ondřejov, Czech Republic
- Astronomical Institute of Slovak Academy of Sciences, Tatranská Lomnica, Slovakia

Co-operating institutions:

- Nicholas Copernicus Observatory and Planetarium Brno, Czech Republic
- Observatory and Planetarium of Johann Palisa, VŠB - Technical University of Ostrava
- Czech Astronomical Society (represented by Variable Stars and Exoplanets Section)

The conference is sponsored under the auspices of rector of Masaryk University, Petr Fiala and governor of the South Moravian region, Michal Hašek.
PROGRAM TOPICS

- Binary Star Formation and Evolution
- Chemically Peculiar Binaries, Active Binaries, Colliding Winds
- Binaries with Intrinsically Variable Components
- Low-Mass Components (Brown Dwarfs, Giant Planets)
- X-Ray Binaries, Compact Objects in Binaries
- Binaries in Clusters, Extragalactic Binaries
- Astrometric Binaries, Resolved Binaries
- Modern Data Acquisition Methods (Surveys, RVs, Instrumentation)
- Calibrations, Distances, Astrophysical EB Laboratories
- Modeling Techniques and New Approaches to Solving the Inverse Problem

INVITED SPEAKERS:

- Bisikalo: CV hydrodynamics
- Bonanos: Extragalactic/high-mass binaries
- Burgasser: Low-mass binaries/brown dwarfs
- Eggleton: Binary/multiple star formation and evolution
- Guinan: Review of novel EB approaches/results
- Hubrig: CP binaries
- Mkrtichian: Intrinsically variable components
- Pavlovskii/Hensberge: Spectroscopic analysis II (critical analysis, classification, applications)
- Piirala: Polarimetric analysis
- Rauw/Pols: Evolution and colliding winds in massive binaries
- Rucinski: Spectroscopic analysis I (DDO, broadening)
- Tokovinin: Instrumentation and missions in the 21st Century
- van den Berg/Cherepashchuk: X-ray binaries
- Wilson/Van Hamme: Modeling in the 21st Century

SCIENTIFIC ORGANIZING COMMITTEE (SOC):

Head: Andrej Prša, Villanova University, USA, andrej.prsa@villanova.edu

Members:
- Edward Devinney, Villanova University, USA
- Horst Drechsel, Dr. Remeis-Sternwarte, Astronomical Institute of the University of Erlangen-Nuremberg, Germany
- Peter Eggleton, Lawrence Livermore National Laboratory, Livermore, USA
The organizers can look back to almost 50 years of continuing observational and publication activities in the field of variable star research, and an almost equally long tradition of holding national conferences (mainly in Brno), and a 25 year history of international contacts. While previous variable star meetings were held at Brno Planetarium, this conference will take place at the buildings of “always young lady”, Masaryk University, on the 90th anniversary of its foundation.
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SOC - Andrej Prša (andrej.prsa@villanova.edu)


DEADLINES:

- Early Registration: April 3, 2009
- Late Registration: May 28, 2009
- Abstract Submission: May 8, 2009
- Proceedings Paper Submission: August 31, 2009

CONFERENCE VENUE:

City of Brno
Brno is the largest city of Moravia and an important tourist centre for all who want to explore the natural and cultural beauties of the South-Moravian region. The city is surrounded by beautiful mixed forests, which offer many opportunities for tourism and cycling. Today Brno is a seat of universities and important judiciary institutions. It offers many possibilities for cultural enjoyment in its numerous theatres, museums, cinemas and clubs. (for more visit http://www.brno.cz/index.php?lan=en)

Faculty of Science
The Faculty of Science at Masaryk University provides higher education in the scientific fields of Mathematics, Physics, Chemistry, Biology, and Earth Sciences. There are 127 accredited fields of study in Bachelor’s, Master’s, and Doctoral degree programs, designed to educate specialized researchers in the sciences, and future secondary school teachers. Intensive practical activity in the sciences is one of the faculty’s main priorities. This is the foundation for the high standard of education that has made it the most productive faculty at the university over the years. Academic activity is supported by technical facilities at the individual departments, which are of top international quality in many cases. Cooperation between Czech and foreign research centres is strongly
emphasized. The main goals of basic research are to acquire knowledge, and learn procedures and techniques that can be used in this country and elsewhere in applied research and development. At present there are nearly 3000 students studying at the faculty, along with about 250 academic employees who also take part in research work.


WEATHER CONDITIONS:

Summer weather in the Czech Republic typically covers the period from June through mid-September. Czech summers are usually mild (20-27°C/70-80°F) and somewhat humid, with the highest temperatures climbing to 30-35°C/85-95°F (occasionally even higher) for short periods. Such heat waves can be expected in July and August. Sudden showers and thunderstorms are common, so bring an umbrella or be prepared to dash for cover.

PAPERS:

Working language is English.

The time allocated for an invited review paper is 40 min + 5 min for discussion, while the time allowed for oral presentation of a contributed paper is 15 min + 5 min for discussion. We recommend using the possibility of presenting your contributions on poster displays (expected oral presentation duration is 2 minutes). The selected oral contributions and posters will be published in the special conference proceedings. The Proceedings will be published as a special issue of the ASP Conf. Series.

If you are interested in presenting a paper please submit your abstract before May 8, 2009. Abstracts received after this deadline will not be included in the booklet of abstracts to be distributed at the beginning of the conference.

ACCOMMODATION, MEALS:

In Brno you can find various possibilities of accommodation, however, for participants of our conference a reduced price (1050,- CZK per person/night) is offered in the Hotel Continental, Kounicova street (http://www.continentalbrno.cz/), which is only 800 m away and practically on the same street as the conference. Please, write BINKEY in the column "special requirements" when booking the Hotel Continental via internet. If you need help with another place of accommodation do not hesitate to write to LOC.

Lunches and evening meals will be available in student canteens or restaurants in the surroundings of our faculty. The average price of a main meal will be about 100 CZK.

REGISTRATION:

Registration has been open since July 17, 2008. Conference fee payment will be accepted starting January 1, 2009. The normal registration fee is 6000 CZK, the late registration fee (after April 4, 2009) is 7500 CZK, and the reduced fee for accompanying persons is 2500 CZK. The full registration fee includes coffee, admission to reception, excursion, concert, abstract booklet, and a copy of the proceedings. The reduced registration fee will only cover admission to conference sessions, concert and coffee. The registration fee can be paid in EUR or USD as well, according to the current exchange rate. (for current CZK/EUR & CZK/USD exchange rates see http://www.cnb.cz/en/index.html)

Kindly use the webpage below for payment: http://is.muni.cz/obchod/baleni/9341?lang=en
or visit the conference webpage http://astro.physics.muni.cz/binkey - the part “Registration”, fill in the online application form given there and follow the link for payment.

FINANCIAL SUPPORT:

The organisers have only a very limited possibility to support a few participants. We will do our best to help you in any respect if necessary. You can send your request to the LOC.

TRAVEL INFORMATION:

Brno can be reached easily by direct trains from Prague, Vienna, Bratislava, and Budapest. You can go by plane to Vienna and then by coach or train (130 km). Another possibility is to go by plane to Prague and then travel about 200 km by plane, coach or train.

Arriving by Plane
There are direct flights to Brno airport from Prague, London and Moscow. The nearest large international airports are in Vienna (130km) and Prague (200km). There are good train/bus connections to Brno from there, some airlines even offer direct bus transport to Brno from the airport. Ask your travel agent for this option when buying your plane ticket.

Arriving by Car
Brno is located in the southwest part of the Czech Republic, on the D-1 backbone motorway Prague-Brno-Bratislava, and the rail-road line Prague-Brno-Vienna. The nearest international airports are Vienna and Prague. Brno is about a 120 minute drive from Vienna or a 150 minute drive from Prague. Use exit 190 when leaving the motorway from Prague.

Notes:
1) If you want to use a Czech highway you must buy a stamp (CZK 220,- for 7 days, CZK 330,- for 1 month).
2) For a map of the Czech Republic see http://www.mapy.cz or http://maps.google.com/

Arriving by Train
Brno can be reached easily by direct EC/SC trains from Prague, Vienna, Bratislava, and Budapest. You may find some train connections which suit you best using on-line timetable services. 
For railway or bus connections see actual information under

We look forward to meeting you in Brno in late spring 2009

Jan Janík, Miloslav Zejda
chairpersons of LOC

Andrei Prša
chairperson of SOC
PRELIMINARY SCHEDULE:

Monday
8 June
9:00 Opening the conference, invitations
9:15 Guinan: Review of novel EB approaches/results
10:00 Contributed talk #1
10:20 Coffee break
10:50 Tokovinin: Instrumentation and missions in the 21st Century
11:35 Contributed talk #2
11:55 Contributed talk #3
12:15 Lunch
14:00 Wilson/Van Hamme: Modeling in the 21st Century
14:45 Contributed talk #4
15:05 Contributed talk #5
15:25 Contributed talk #6
15:45 Coffee break
16:15 Pirola: Polarimetric analysis
17:00 Contributed talk #7
17:20 Contributed talk #8
17:40 Poster review/short presentations
19:30 Welcome party

Tuesday
9 June
9:00 Rucinski: Spectroscopic analysis I (DDO, broadening)
9:45 Contributed talk #9
10:05 Contributed talk #10
10:25 Contributed talk #11
10:45 Coffee break
11:15 Pavlovski/Hensberge: Spectroscopic analysis II (critical analysis, classification, applications)
12:00 Contributed talk #12
12:20 Contributed talk #13
12:40 Lunch
14:00 Eggleton: Binary/multiple star formation & evolution
14:45 Contributed talk #14
15:05 Contributed talk #15
15:25 Contributed talk #16
15:45 Coffee break
16:15 Rauw/Pols: Evolution and colliding winds in massive binaries
17:00 Contributed talk #17
17:20 Contributed talk #18
17:40 Poster review/short presentations
20:00 Concert

Wednesday
10 June
9:00 Bonanos: Extragalactic/high-mass binaries
9:45 Contributed talk #19
10:05 Contributed talk #20
10:25 Contributed talk #21
10:45 Coffee break
11:15 van den Berg/Cherepashchuk: X-ray binaries

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12:00 Contributed talk #22
12:20 Contributed talk #23
12:40 Lunch
14:00 Excursion

Thursday
11 June
9:00 Mkrtichian: Intrinsically variable components
9:45 Contributed talk #24
10:05 Contributed talk #25
10:25 Contributed talk #26
10:45 Coffee break
11:15 Hubrig: CP binaries
12:00 Contributed talk #27
12:20 Contributed talk #28
12:40 Lunch
14:00 Bisikalo: CV hydrodynamics
14:45 Contributed talk #29
15:05 Contributed talk #30
15:25 Contributed talk #31
15:45 Coffee break
16:15 Burgasser: Low-mass binaries/brown dwarfs
17:00 Contributed talk #32
17:20 Contributed talk #33
17:40 Poster review/short presentations
20:00 Closing reception

Friday
12 June
9:00 Contributed talk #34
9:20 Contributed talk #35
9:40 Contributed talk #36
10:00 Contributed talk #37
10:20 Contributed talk #38
10:40 Coffee break
11:10 Contributed talk #39
11:30 Contributed talk #40
11:50 Contributed talk #41
12:10 Lunch
14:00 Contributed talk #41
14:20 Contributed talk #42
14:40 Contributed talk #43
15:00 Summary
15:20 Closing remarks

Please feel free to copy this form and to distribute it among interested colleagues. Thank you.