

**PRELIMINARY P R O G R A M**  
**For Second Practical School on Spectroscopy**  
**BNAO – Rozhen, 5-12 October 2009**

**04 October, Sunday**

Arrival and accommodation

20:00 - Welcome party

**05 October, Monday**

9:30 – opening

10:00 – 11:00 Basic knowledge on astrospectroscopy. Coude spectrograph at BNAO-Rozhen. (D. Kolev)

11:00 – 12:00 Echelle spectroscopy. (F. Musaev)

12:00 – 14:00 Lunch time

14:00 – 15:00 Model atmosphere parameters determination and model atmosphere calculation with ATLAS-9. (T. Ryabchikova)

15:00 – 16:00 Spectral and abundances analysis: spectral synthesis, radial and rotational velocity measurements, equivalent width measurements, WIDTH and SYNTH codes. (T. Ryabchikova)

16:00 – 16:30 Coffee-break

16:30 – 18:00 Visit to the 2m telescope. Instructions for work with the Coude-spectrograph. (D. Kolev)

18:00 – 20:00 Dinner time

20:00 – Observations with the Coude spectrograph. – Students will be divided in groups. Each group will observe part of the night. (night instructors: L. Iliev, D. Kolev, N. Tomov)

**06 October, Tuesday**

11:30 – 13:00 Lunch time

13:00 – 14:00 Methods to determine wind properties in hot massive stars (N. Markova)

14:00 – 15:00 Intermediate A and F stars – from backyard to frontline astrophysics (I. Iliev)

15:00 – 16:00 Interacting binaries – classical novae, cataclysmic variables and symbiotic stars. (N. Tomov)

16:00 – 16:30 Coffee-break

16:30 – 17:30 Lecture on pulsating stars (tbd)

18:00 – 20:00 Dinner time

20:00 – Observations with the Coude spectrograph. – (L. Iliev, D. Kolev, N. Tomov)

**07 October, Wednesday**

11:30 – 13:00 Lunch time

13:00 - 14:00 Basic knowledge on Linux and IRAF (H. Markov)

14:00 – 15:00 CCD spectra – data reduction with IRAF- part 1 (I. Iliev)

15:00 – 16:00 Practical exercises on data processing – in groups (I. Iliev, H. Markov, I. Stateva, M. Tomova)

16:00 – 16:30 Coffee-break

16:30 – 18:00 Practical exercises on data processing – in groups (I. Iliev, H. Markov, I. Stateva, M. Tomova)

18:00 – 20:00 Dinner time

20:00 – Observations with the Coude spectrograph. – (L. Iliev, D. Kolev, N. Tomov)

**08 October, Thursday**

11:30 – 13:00 Lunch time

13:00 – 14:00 CCD spectra – data reduction with IRAF- part 2 (I. Iliev)

14:00 – 16:00 Practical exercises on data processing – in groups (I. Iliev, H. Markov, I. Stateva, M. Tomova)

16:00 – 16:30 Coffee-break

16:30 – 18:00 Practical exercises on data processing – in groups (I. Iliev, H. Markov, I. Stateva, M. Tomova)

18:00 – 20:00 Dinner time

**09 October, Friday**

10:00 – 11:00 Spectral indicators for magnetic activity in late-type stars (R. Konstantinova-Antova)

11:00 – 12:00 Spectropolarimetry: an efficient look to stellar magnetism (M. Auriere)

12:00 -14:00 Lunch time

14:00 – 16:00 Practical exercises on data processing – in groups. (I. Iliev, H. Markov, I. Stateva, M. Tomova)

16:00 – 16:30 Coffee-break

16:30 – 18:00 Practical exercises on data processing. Preparation of the results for presentation – in groups (I. Iliev, H. Markov, I. Stateva, M. Tomova)

18:00 – 20:00 Dinner time

**10 October, Saturday**

10:00 – 11:00 tbd (M. Dennefeld)

11:00 – 12:00 Lecture on spectral databases (tbd)

12:00 – 14:00 Lunch time

14:00 – 16:00 Practical exercises on data processing. Preparation of the results for presentation – in groups (I. Iliev, H. Markov, I. Stateva, M. Tomova)

16:00 – 16:30 Coffee-break

16:30 – 18:00 Presentation of the results. (SOC Commission)

18:00 - Closing of the School

20:00 – Official Dinner

**11 October, Sunday**

10:00 – Excursion

18:00 – 20:00 Dinner time

**12 October, Monday**

Departure from Rozhen