

## Tentative TimeTable (1st Meeting)

### January 27th, Monday

09.30 -10.00	Kick-off and Administration
10.00 -10.40	L. Khomenko/M. Collados: Formulation of multi-fluid species equations
10.40 -11.10	Discussion
11.10 -11.40	Coffee Break
11.40 -12.20	L. Khomenko/M. Collados: AMR for multi-fluid simulations of the processes in the solar atmosphere
12.20 -12.50	Discussion
12.50 -14.30	Lunch
14.30 -15.10	T. Downes: A numerical approach to solving the equations of weakly ionised multifluid MHD
15.10-15.40	Discussion
15.40-16.25	Discussion Topic: Simplified treatment of Ambipolar diffusion (E. Vazquez)

## January 28th, Tuesday

09.30 - 10.10	I. Alekseev: Joule heating in the corona and chromosphere
10.10 -10.40	Discussion
10.40 -11.20	H. Gilbert: Similarities and differences between the solar chromosphere and the Earth's ionosphere
11.20 -11.50	Discussion
11.50 -12.10	Coffee Break
12.10 -12.50	A. Díaz: High cadence spectroscopy of prominence dynamics (Partial ionization effects).
12.50 -13.20	Discussion
13.20 -14.50	Lunch
14.50 -15.30	R. Soler: Alfvén waves in a partially ionised two-fluid plasma
15.30 -16.00	Discussion
16.00 -16.45	Discussion Topic: Cut-off frequency of Alfvén waves in two-fluid MHD (T. Zaqarashvili)

## January 29th, Wednesday

9.30 -10.10	E. Vazquez: Effects of Ambipolar diffusion on star formation efficiency of molecular clouds
10.10 -10.40	Discussion
10.40 -11.20	M. Wardle: Magnetic drift and diffusion in dusty, weakly-ionised plasmas, with applications to molecular cloud cores and protoplanetary disks.
11.20 -11.50	Discussion
11.50 -12.10	Coffee Break
12.10 -12.50	S. Keith: Accretion in Giant Planet Circumplanetary Disks
12.50 -13.20	Discussion
13.20 -14.50	Lunch
14.50 -15.30	L. Khomenko/M. Collados: Simulations of Rayleigh-Taylor instability in prominences
15.30 -16.00	Discussion
16.00 -16.45	Discussion Topic: Collision frequencies in the solar atmosphere (T. Zaqarashvili)

## January 30th, Thursday

9.30 – 10.10	T. Zaqarashvili: Multi-fluid MHD of the solar atmosphere
10.10 -10.40	Discussion
10.40 -11.20	H. Gilbert: Dynamics in partially ionized prominence plasma
11.20 -11.50	Discussion
11.50 -12.10	Coffee Break
12.10 -12.50	T. Zaqarashvili: Torsional Alfvén waves in partially ionized solar plasma: effects of neutral helium and stratification
12.50 -13.20	Discussion
13.20 -14.50	Lunch
14.50 -15.35	Discussion Topic: Field-aligned currents at Heliosphere (I. Alekseev)

## **January 31th, Friday**

9.30 – 10.10

10.10 -10.40

10.40 -11.20

11.20 -11.50

11.50 -12.10

12.10 -12.50

12.50 -13.20

13.20 -14.50

14.50 -15.30

15.30 -16.00

16.00 -16.45