

SPIRou Science Meeting 22 - 25 September at Paris

Program

22 Sept at Jussieu :

09:30 - 09:50 Coffee break/welcome
09:50 - 10:00 Opening (Donati / Doyon)

— *SPIRou RV survey of M dwarfs : Science justification* —

10:00 - 10:30 : RV planet searches around M dwarfs : main results (20+10') — X. Bonfils
10:30 - 11:00 : Habitable zone around M-dwarfs (20+10') — F. Forget
11:00 - 11:30 : Dynamics of planetary systems (20+10') — J. Laskar
11:30 - 12:00 : Atmospheres of exo-planets and SPIRou : observation constraint (20+10') — Lecavelier des Etangs

— *The SPIRou planet search* —

13:45 - 14:15 : Precision RVs in the nIR (20+10') — P. Figueira
14:15 - 14:35 : RV Instrumental performances / A Monte-Carlo simulation on a SPIRou survey (15+5') — X. Delfosse (15+5')
14:35 - 14:55 : Filtering telluric lines for precision RVs (15+5) — E. Artigau
14:55 - 15:25 : Modeling the activity jitter using spots / plages (20+10') — Dumusque
15:25 - 15:55 : Using spectropolarimetry for filtering the activity jitter (20+10') — E. Hébrard
15:55 - 16:15 : Coffee break

— *Input catalogs for the SPIRou planet search* —

16:15 - 16:35 : Input catalogs of M dwarfs for the RV survey (15+5) — L. Malo
16:35 - 16:55 : Determining metallicity of M dwarfs (15+5) — V. Neves

— *Discussion* —

chair : E. Artigau, F. Bouchy, X. Delfosse

17:00 - 18:30 : Organizing the SPIRou planet search, Input catalogs, observational strategy & associated WPs

23 Sept at Jussieu :

— — *The SPIRou RV follow-up of transiting candidates : Science justification* — —

09:00 - 09:30 : RV follow-ups of transiting planets : main results (20+10') — M.Deleuil

09:30 - 10:00 : Internal structure of planets (20+10') — T.Guillot

10:00 - 10:30 : Modeling atmospheres of very cool stars & planets (20+10') — F. Allard

10:30 - 10:50 : Coffee break

10:50 - 11:20 : Planet Formation and planets occurrence statistics (20+10') — Y. Alibert

— — *SPIRou follow-ups of transit survey* — —

11:20 - 11:50 : Planets population around Kepler M-dwarfs stars (20+10')— E.Gaidos

11:50 - 12:20 : SPIRou follow-up of TESS candidates (20+10')— D. Latham

12:20 - 12:50 : SPIRou follow-up of ground based transit surveys (20+10')— F.Bouchy

— — *Characterizing detected planets* — —

14:00 - 14:30 : Rossiter observations with SPIRou (20+10') — G.Hébrard

14:30 - 14:45 : Characterizing transiting planets w/ CHEOPS (10+5') — M.Deleuil

14:45 - 15:15 : JWST observations of SPIRou candidates (10+10') — R.Doyon

— — *Activity of M-dwarfs* — —

15:15 - 15:45 : Modelling the dynamos of low mass MS stars / M dwarfs (20+10') — L. Jouve

15:45 - 16:15 : Magnetic fields of low-mass MS dwarfs (20+10') — J. Morin

16:15 - 16:45 : Coffee break

— — *Discussion* — —

chair : R.Doyon, G.Hébrard, C.Moutou

16:45 - 18:30 : Organizing the SPIRou follow up of transiting planets, observational strategy & associated WPs

24 Sept at Jussieu :

— *Early phases of stellar formation* —

09:00 - 09:30 : The formation of low-mass stars - from pre stellar cores to T Tauri stars (20+10') - P. André

09:30 - 10:00 : Observing protostellar accretion discs w/ ALMA & NOEMA (20+10') — A. Maury

10:00 - 10:30 : Magnetospheric accretion & disc locking of cTTSs + Multi-wavelength observations of magnetospheric accretion (20+10') - Bouvier

10:30 - 10:50 : Coffee break

— *Magnetic fields of low-mass protostars* —

10:50 - 11:20 : Magnetic imaging of cTTSs, wTTSs & class I protostars (20+10') - G. Hussain

11:20 - 11:50 : Modeling magnetospheric accretion in cTTSs (20+10') - C.Zanni

11:50 - 12:20 : Observations of winds & jets (20+10') - S. Cabrit

— *Magnetic fields and planet formation* —

14:00 - 14:30 : Planet formation & migration in accretion discs (20+10') - J. Guilet

14:30 - 15:00 : Looking for hJs around PMS stars (20+10') - S.Borgniet

— *Magnetic fields of young Sun-like stars* —

15:00 - 15:30 : Magnetic fields of solar-type stars from the ZAMS to the main sequence (20+10') - P. Petit

15:30 - 16:00 : Coffee break

16:00 - 16:30 : Modeling dynamos of young solar like-stars (20+10') - S. Brun

16:30 - 17:00 : Modelling winds of young stars & their impact on planet habitability (20+10') - A. Vidotto

17:00 - 18:30 — *Discussion / The SPIRou protostars survey* —
chair : S.Alencar, J.Bouvier, J.F.Donati

Instrumental performances and sample (10') — Donati

Organizing the SPIRou Magnetic Protostar Survey & WPs

25 Sept at IAP :

— *Star-Planet Interactions* —

08:30 - 09:00 : Star / planet interactions (20+10') - R.Fares

09:00 - 09:30 : Impacts of magnetic interactions in close-in star-planet systems (20+10') - A. Strugarek

— *SPIRou : other science goals* —

09:30 - 10:00 : Magnetism of evolved stars (20+10') - A.Lebre

10:00 - 10:30 : Properties and formation of massive stars (20+10') - F.Martins

10:30 - 11:00 : Kinematics and characterization of the low-mass population of young co-moving groups (20+10') — L. Malo

11:00 - 11:20 : Coffee break

11:20 - 11:35 : Massive-Star Magnetospheres with Near-Infrared Glasses (10+5') - M. Oksala

11:35 - 11:50 : Velocity-Resolved Optical [Ne III] from the X-ray Irradiated Sz 102 Microjets (10+5') - Chun-Fan Liu

11:50 - 12:20 : Atmospheres of solar-system planets (20+10') - T. Widemann

14:00 - 14:30 : Weather patterns on brown dwarfs (20+10') - E. Artigau

14:30 - 17:30 — The SPIRou Legacy Survey organization —

Overall presentation & organization — J.F. Donati

The Legacy Survey Data Processing Center — F.Bouchy

Proposed WPs & coordinators — X.Delfosse

Finale Discussion & wrap-up