

Scientific Programme of the Cool Stars 19 Splinter Session on “Variability of Solar/Stellar Magnetic Activity”

Main organisers: D. Fabbian¹ & R. Simoniello²; **Co-conveners:** R. Collet³, S. Criscuoli⁴, H. Korhonen⁵, N. Krivova¹, K. Oláh⁶, A. I. Shapiro¹, A. Vidotto⁷, N. Vitas⁸

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SESSION 1 (TUESDAY 07 JUNE 2016): **MAGNETIC VARIABILITY AS A KEY TO THE SOLAR/STELLAR CONNECTION**

14:30 - 15:45 Session 1.1: Solar/Stellar Variability: Observational Properties and Theory (Chairs: Criscuoli, S. & Fabbian, D.)

Welcome Address / Preamble (Fabbian, D. & Simoniello, R.)

Time	Duration	Name	Affiliation	Title
14:30	20	Giampapa, M.	NSO, US	Photometric Variability in the Sun and Sun-like Stars
14:50	12	García, R. A.	IRFU/SAp, France	Probing Stellar Magnetism with Space Photometry of Solar Analogs
15:02	12	Marvin, C.	Univ. of Göttingen, Germany	Measurements of Absolute Calcium II H&K in FGKM Stars
15:14	12	Haywood, R.	CfA, US	Radial-Velocity Variability of the Sun as a Star with HARPS and HARPS-N
15:26	12	Barnes, J. R.	Open Univ., UK	Photospheric Acne at the Bottom of the Main Sequence

15:45 - 16:15 Coffee Break

16:15 - 17:30 Session 1.2: Stellar Magnetism and its Impact on the Surrounding Environment (Chairs: Vidotto, A. & Korhonen, H.)

16:15	20	Marsden, S.	USQ, Australia	Magnetic Fields on Solar-Type Stars: The Solar-Stellar Connection
16:35	20	Aigrain, S.	Univ. of Oxford, UK	The Effects of Stellar Activity on Detecting and Characterizing Planets
16:55	12	Llama, J.	Univ. of St Andrews, UK	The Impact of Stellar Activity on High Energy Exoplanet Transits
17:07	12	Alvarado-Gómez, J. D.	ESO, Germany	Simulating the Environment Around Planet-Hosting Stars
17:19	12	Jardine, M.	Univ. of St Andrews, UK	Predicting the Wind Speeds of Solar-Like Stars

SESSION 2 (THURSDAY 09 JUNE 2016): **VARIABILITY AND ACTIVITY THROUGHOUT STELLAR EVOLUTION**

14:30 - 15:45 Session 2.1: Age/Rotation/Activity Relation from Stellar Surveys and Theory (Chairs: Korhonen, H. & Criscuoli, S.)

Announcements / Session 1 Highlights (Simoniello, R. & Fabbian, D.)

Time	Duration	Name	Affiliation	Title
14:30	20	Solanki, S. K.	MPS, Germany	Variability of the Sun and Sun-like Stars on Different Time Scales
14:50	20	Basri, G.	UC Berkeley, US	Age-Rotation-Activity Relations: Observations and Theory
15:10	12	Booth, R.	QUB, UK	An Improved Stellar Age-Activity Relationship for Ages Beyond a Gigayear
15:22	12	Lehtinen, J.	Univ. of Helsinki, Finland	Rotation and Spot Activity of Young Solar-Type Stars
15:34	12	See, V.	Univ. of St Andrews, UK	What Can We Learn About Stellar Activity Cycles from ZDI?

15:45 - 16:15 Coffee Break

16:15 - 17:11 Session 2.2: Constraining Solar/Stellar Dynamo Theory (Chairs: Collet, R. & Simoniello, R.)

16:15	20	Jouve, L.	Univ. de Toulouse, France	Numerical Simulation of Solar/Stellar Dynamos
16:35	12	Metcalfe, T.	SSI, US	The Stellar Context for Solar Magnetism
16:47	12	Augustson, K.	IRFU/SAp, France	Magnetic Furnaces: Examining Fully Convective Dynamos and the Influence of Rotation
16:59	12	Engle, S. (TBC)	Villanova Univ., US	Activity-Rotation-Age Relationships for M dwarfs and the Ages of Extrasolar Planets

17:11 - 17:30 Final Discussion Session for Afternoons 1 & 2: Peculiarities and Common Features of Magnetism and Activity in the Sun and in Solar-Like Stars (Chairs: Vidotto, A. & Collet, R.)