

# Born in Fire: Eruptive Stars and Planet Formation

September 24-27, 2024 — UDP, Santiago, Chile

Updated on September 24

	08:30 - 09:00		Registration
	09:00 - 09:20		Welcome
<b>Tuesday Morning</b> Chairs: Antonio Hales and Lucas Cieza	09:20 - 10:00	Lee Hartmann	Progress in understanding accretion outbursts
	10:00 - 10:20	Zhen Guo	A rowdy planetary nursery: Eruptive protostars discovered from the VVV survey
	10:20 - 10:40	Péter Ábrahám	Eruptive young stellar objects among the Gaia Photometric Science Alerts
	10:40 - 11:10		Coffee
	11:10 - 11:50	Marc Audard (remote)	Star formation in the era of Big data
	11:50 - 12:10	Zsófia Nagy (remote)	Accretion variability in Young Stellar Objects: results from the Gaia Photometric Science Alerts
	12:10 - 12:30	Aaron Labdon	The Inner Disk View of Episodic Accretion with VLTI
	12:30 - 14:00		Lunch
<b>Tuesday Afternoon</b> Chair: Itziar de Gregorio and Lynne Hillenbrand	14:00 - 14:30		<i>Poster Bursts</i>
	14:30 - 14:50	Adolfo Carvalho	The post-outburst temperature evolution of the inner disks of two recent FU Ori outbursts
	14:50 - 15:10	Carlos Contreras Peña	The outbursting YSOs catalogue
	15:10 - 15:30		Coffee
	15:30 - 16:10	Ágnes Kóspál	The circumstellar environment of young eruptive stars
	16:10 - 16:30	Aashish Gupta	Understanding the impact of infalling streamers onto protostellar systems
	16:30 - 17:15		Discussion
	17:30		<i>Rooftop Reception</i>
	End of the Day		
<b>Wednesday Morning</b> Chairs: Philipp Weber and Jenny Calahan	09:00 - 09:40	Sergei Nayakshin	Planets and non-ideal MHD disc winds in FUOR eruptions
	09:40 - 10:00	Eduard Vorobyov (remote)	The mystery of FU Orionis resolved
	10:00 - 10:20	Troels Haugbølle	Late infall and accretion rejuvenating protoplanetary disks
	10:20 - 10:40	Vardan Elbakyan (remote)	Accretion bursts in high-mass protostars
	10:40 - 11:10		Coffee
	11:10 - 11:30	Michael Cecil	2D radiation hydrodynamic evolution of the inner protoplanetary disk undergoing episodic accretion
	11:30 - 11:50	Arpan Ghosh	Simultaneous NIR and Radio monitoring of YSOs to probe connection between accretion and outflows.
	11:50 - 12:10	Foteini Lykou (remote)	A compact disk and jet-like signatures in the eruptive star V900 Mon
12:10 - 12:30	Patrick Sheehan	Sub-Millimeter Variability in the Envelope & Warped Protostellar Disk of the Class 0 Protostar HOPS 358	
	12:30 - 14:00		Lunch
<b>Wednesday Afternoon</b> Chairs: James Miley and Baobab Liu	14:00 - 14:40	Ilse Cleeves (remote)	Energetic Processes' Role in the Chemistry of Planet Formation
	14:40 - 15:00	Zsófia Marianna Szabó	The molecular inventory of a young eruptive star's environment - Case study of the classical FU Orionis star, V1057 Cyg
	15:00 - 15:20	Abygail Waggoner	Observing an 'Explosion.' Monitoring Post-flare Chemistry and Physics in Real Time
	15:20 - 15:50		Coffee
	15:50 - 16:10	Fernando Cruz Sáenz de Miera	The role of (out)bursts in shaping circumstellar disk chemistry
	16:10 - 16:30	Margot Leemker (remote)	Resolving the water snowline in disks and its effect on the chemical composition of planet forming material
16:30 - 16:50	Beatrice Kulterer	Post Outburst Chemistry in the Very Low Luminosity Object in DC3272+18	
	16:50 - 17:30		Discussion
	18:00		<i>Social Event at Planetarium</i>
	End of the Day		
<b>Thursday Morning</b> Chairs: Seba Pérez and Michihiro Takami	09:00 - 09:40	Ruobin Dong	Highlights from Recent Resolved Observations of Protoplanetary Disks
	09:40 - 10:00	Cristiano Longarini (remote)	Rethinking about gravitational instability as a planet formation scenario
	10:00 - 10:20	Philipp Weber	Planet Formation by gravitational instability around the FUor object V960 Mon?
	10:20 - 10:40	Jess Speedie (remote)	Gravitational instability in the AB Aur planet-forming disk
	10:40 - 11:10		Coffee
	11:10 - 11:30	Baobab Liu	A dry path of planet formation?
	11:30 - 11:50	Adrien Houge	Outbursting objects as laboratories to study the evolution of dust and water ice
	11:50 - 12:10	Masayuki Yamaguchi	First Detection of Peculiar Disk Structures Associated with the Young Eruptive Star EX Lupi
12:10 - 12:30		<i>Poster Bursts #2</i>	
	12:30 - 14:00		Lunch
<b>Thursday Afternoon</b> Chairs: Fernando Cruz Sáenz de Miera and Ágnes Kóspál	14:00 - 14:40	Nicolas Cuello	Setting Discs on Fire with Flybys
	14:40 - 15:00	Pedro Poblete	Discs in Flames: FU Ori Events in Young Binaries
	15:00 - 15:20	Indrani Das	Accretion bursts and prospects for planet formation in Herbig Ae stars
	15:20 - 15:50		Coffee
	15:50 - 16:10	Koshvendra Singh	Hotspot migration during an outburst in a Young Stellar Object: EX Lupi
	16:10 - 16:30	Eleonora Fiorellino (remote)	The impact of eruptive accretion on building the stellar mass
	16:30 - 17:10		Discussion
	End of the Day		
<b>Friday Morning</b> Chair: Péter Ábrahám	09:30 - 09:50	Kundan Kadam (remote)	Winds during FUor outbursts
	09:50 - 10:10	Jenny Calahan	Determining the Mass and Gaseous-Chemical Reservoir of Outbursting YSOs using NOEMA
	10:10 - 10:30	Mizna Kanely Ashraf (remote)	An outburst and FU Ori-type disc of a former low-luminosity protostar
	10:30 - 10:50	Michihiro Takami	E-ELT METIS Views of the FUor Disks (II)
	10:50 - 11:20		Coffee
	11:20 - 11:40	Lynne Hillenbrand	Conference Summary
	11:40 - 12:30		
	End of the Born in Fire Conference, hopefully the start of many collaborations.		