

Born in Fire: Eruptive Stars and Planet Formation

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

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| | 08:30 - 09:00 | | Registration |
| | 09:00 - 09:20 | | Welcome |
| Tuesday Morning 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 |
| Tuesday Afternoon Chair: Itziar de Gregorio and Lynne Hillenbrand | 12:30 - 14:00 | | Lunch |
| | 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 | | |
| Wednesday Morning 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 |
| Wednesday Afternoon Chairs: James Miley and Baobab Liu | 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 |
| | 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 | | |
| Thursday Morning 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 Hogue | 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> |
| Thursday Afternoon Chairs: Fernando Cruz Sáenz de Miera and TBC | 12:30 - 14:00 | | Lunch |
| | 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 | | |
| Friday Morning Chair: TBC | 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 | | |
| | 11:40 - 12:30 | Lynne Hillenbrand | Conference Summary |
| | End of the Born in Fire Conference, hopefully the start of many collaborations. | | |