CITA Flows Workshop, Oct 15-17, 2025, held at CITA Idea Lab, 13th floor, McLennan Physical Laboratories, 60 St. George Street, Toronto, ON M5S 3H8

Wednesday, October 15

8:30 AM | Coffee available
8:50 AM | Welcome and Purpose of the Workshop
Shantanu Basu and Doug Johnstone (Conference Chairs)

9:00 AM | Arcs, Cavities, and Outflows in Magnetized Collapse
Shantanu Basu (CITA)

9:30 AM | Questions

9:40 AM | Attempting to find the origin of accretion bursts starting at ISM scales

Rajika Kuruwita (Heidelberg)

10:10 AM | Questions

10:20 AM | Coffee Break

10:40 AM | Complex Envelopes in the Earliest Phases of Star Formation and Their Implications (virtual talk)

Kazuki Tokuda (Kagawa)

11:10 AM | Questions

11:20 AM | The characterisation of eruptive variable YSOs in the time-domain era

Carlos Contreras (SNU)

11:50 AM | Questions

12:00 PM | Open Discussion – infall, streamers

12:30 PM - 2:00 PM| Lunch

2:00 PM | Go with the Flow: Probing the Dynamics During Protostar and Disc Formation (virtual talk)

Asmita Bhandare (LMU)

2:30 PM | Questions

2:40 PM | Magnetic field and its influence on protostellar disk formation

Yisheng Tu (Michigan)

3:10 PM | Questions

3:20 PM | Coffee Break

3:30 PM | Accretion History from Core Collapse to Disk Evolution: Implications for Planetesimal Formation

Indrani Das (ASIAA)

4:00 PM | Questions

4:10 PM | Star Formation in Filamentary Hierarchies

Ralph Pudritz (McMaster)

4:40 PM | Questions

4:50 PM | Open Discussion - infall, streamers, disk formation and evolution, episodic nature

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Thursday, October 16

8:30 AM | Coffee available

9:00 AM | Formation and evolution of embedded disks toward planet formation
Nagayoshi Ohashi (ASIAA)

9:30 AM | Questions

9:40 AM | ALMA 2D Super-resolution Imaging Survey of Ophiuchus Class I/Flat spectrum/II Disks. I. Discovery of New Disk Substructures

Ayumu Shoshi (Kyushu)

10:10 AM | Questions

10:20 AM | Coffee Break

10:40 AM | Accretion Outbursts in Three-Dimensional Self-Gravitating Disks

Han-Gyeol Yun (SNU)

11:10 AM | Questions

11:20 AM | Modeling Episodic Accretion in Protoplanetary Disks: From Mechanisms to Disk Evolution

Kundan Kadam (IWF Graz)

11:50 AM | Questions

12:00 PM | Open Discussion

12:30 PM - 2:00 PM| Lunch

2:00 PM | Chemical Consequences of Episodic Accretion in Protostellar Systems

Jeong-Eun Lee (SNU)

2:30 PM | Questions

2:40 PM | The (in)stability of the inner disk: A universal outburst mechanism?

Michael Cecil (Heidelberg)

3:10 PM | Questions

3:20 PM | Coffee Break

3:30 PM | Star-disk connection: roles of stellar-scale processes

Shinsuke Takasao (Musashino)

4:00 PM | Questions

4:10 PM | Measuring the accretion on young stars

Eleonora Fiorellino (Bologna)

4:40 PM | Questions

4:50 PM | Open Discussion before Dinner - disk evolution, episodic nature, accretion onto star

7:00 PM onwards | Dinner Banquet

Friday, October 17

8:30 AM | Coffee available

9:00 AM | The ALPPS project, first results (virtual talk)
Paulo Cortes (NRAO)

9:20 AM | Questions

9:30 AM | Probing 100–10,000-au Scales in a Class 0 Protostar Driving Three Outflows

Yuki Okoda (NRC-HAA)

10:00 AM | Questions

10:10 AM | Coffee Break

10:25 AM | Multifaceted Views of Magnetically Interplaying Inflow and Outflow in Protostellar Systems

Hsien Shang (ASIAA)

10:55 AM | Questions

11:05AM | Time-variable, asymmetric in- and out-flows at envelope scales

Hector Arce (Yale)

11:35 AM | Questions

11:45 AM | Open Discussion - outflows, jets, winds

12:15 PM – 1:30 PM | Lunch

1:30 PM | Optical-IR (OIR) Studies of Jets/Winds and FUors to Test Theories of Mass Accretion Processes

Michihiro Takami (ASIAA)

2:00 PM | Questions

2:10 PM | Bowshocks driven by the molecular jet of an outbursting protostar

Guillermo Blazquez Calero (IoA Andalucia)

2:40 PM | Questions

2:50 PM | Coffee Break

3:00 PM | Open Discussion - outflows, jets, winds, infall, accretion onto star, disks, envelopes

3:50 PM | Closing Remarks

Doug Johnstone (NRC-HAA)

4:00 PM | CITA Desserts with CITA Community