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CSO SPECIAL SCIENCE SEMINAR

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TIME: 03:00 PM, Monday 16th May 2011

PLACE: CSO Conference Room

**TITLE: Protostellar Outflows and Clustered Star Formation:
The Case of Serpens South**

SPEAKER: Dr. Fumitaka Nakamura
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ABSTRACT:

I will briefly present some recent results of our numerical simulations of cluster formation including protostellar outflow feedback, discussing the importance of outflow feedback in clustered star formation. Then, as an example, I will present some recent results of our CO $J = 3 - 2$ observations toward a nearby embedded cluster, Serpens South, newly discovered by Spitzer legacy survey as an infrared dark cloud. Our CO $J = 3 - 2$ map reveals that many outflows are crowded in the dense cluster-forming clump. I will discuss how the outflow feedback influences the dynamics of the cluster-forming region.

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