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Astronomy data delivery and processing services with CADC and CANFAR

Tuesday 11 October 2016 14:30 (15 minutes)

The Canadian Advanced Network For Astronomical Research (CANFAR)
is a digital infrastructure that has been operational for the last
six years.

The platform allows astronomers to store, collaborate, distribute and
analyze large astronomical datasets. We have implemented multi-site storage and
in collaboration with an HEP group at University of Victoria, multi-cloud processing.
CANFAR is deeply integrated with the Canadian Astronomy Data Centre
(CADC), one of the first public astronomy data delivery service
initiated 30 years ago that is now expanding its services beyond data
delivery. Individual astronomers, official telescope archives, and large astronomy survey
collaborations are the current CANFAR users.

This talk will describe some CANFAR use cases, the internal infrastructure, the
lessons learned and future directions.

Secondary Keyword (Optional)

Computing facilities

Primary Keyword (Mandatory)

Experience/plans from outside experimental HEP/NP

Tertiary Keyword (Optional)

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