



**CITA**  
**ICAT**

Canadian Institute for  
Theoretical Astrophysics  
L'institut Canadien  
d'astrophysique théorique



UNIVERSITY OF  
**TORONTO**

THE SACKLER VISITING ASTROPHYSICIST PROGRAM PRESENTS:

# THE FOURTH PARADIGM

HOW BIG DATA IS CHANGING SCIENCE

**ALEX SZALAY**

JOHNS HOPKINS UNIVERSITY

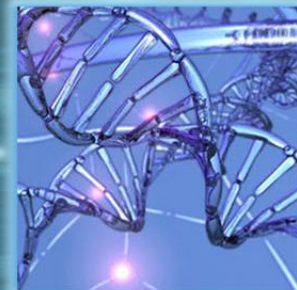
**WED, NOVEMBER 4, 2015**

**7.30 PM**

**KOFFLER INSTITUTE ROOM 108**

**UNIVERSITY OF TORONTO**

**569 SPADINA AVE**



## FREE PUBLIC LECTURE

The talk will describe how science is changing as a result of the vast amounts of data we are collecting from gene sequencers to telescopes and supercomputers. This Fourth Paradigm of Science, predicted by Jim Gray, is moving at full speed, and is transforming one scientific area after another. The talk will present various examples on the similarities of the emerging new challenges and how this vision is realized by the scientific community.