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I will give a survey on the role of L-functions in number theory and present subconvexity bounds for twisted automorphic L-functions over number fields. I will give various arithmetic and geometric applications of such bounds including a contribution to Hilbert's eleventh problem.

## PRIX ANDRÉ-AISENSTADT PRIZE 2009

Renseignements/Information  
[activites@crm.umontreal.ca](mailto:activites@crm.umontreal.ca)

[www.crm.umontreal.ca/prix/winners/prixAA09\\_fr.shtml](http://www.crm.umontreal.ca/prix/winners/prixAA09_fr.shtml)

# Valentin Blomer

UNIVERSITY OF TORONTO

**Le vendredi 20 mars 2009**  
**Friday, March 20, 2009**

**16h00 - 4:00 pm**  
**Salle / Room 1360**

Du café et des biscuits seront servis à 15h30 et une réception suivra au Salon Maurice-L'Abbé (salle 6245).

Coffee and cookies will be served at 3:30 pm and a reception will follow at Salon Maurice-L'Abbé (Room 6245).