## Calendar

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<tr>
<th>Date</th>
<th>Event</th>
<th>Time</th>
<th>Place</th>
<th>Speaker</th>
<th>Title</th>
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<tr>
<td>Wednesday, May 21</td>
<td><strong>Summer Number Theory Seminar</strong></td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>Jeffery 422</td>
<td>M. Ram Murty, Queen’s University</td>
<td>The Siegel-Klingen theorem revisited (continued)</td>
<td>Attached</td>
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<td>Thursday, May 22</td>
<td><strong>CYMS Seminar</strong></td>
<td>10:00 a.m.</td>
<td>Jeffery 422</td>
<td>Andre Perunicic, Queen’s University</td>
<td>More on Fermat quotient zeta functions</td>
<td>Attached</td>
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<td>Friday, May 23</td>
<td><strong>Statistics Seminar</strong></td>
<td>11:00 a.m.</td>
<td>Jeffery 101</td>
<td>Professor Jiajia Zhang, University of South Carolina</td>
<td>Kernel Smoothed Profile Likelihood Estimation in the Accelerated Failure Time Frailty Model for Clustered Survival Data</td>
<td>Attached</td>
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Items for the Info Sheet should reach Anne (burnsa@mast.queensu.ca) by noon on Monday. The Info Sheet is published every Tuesday.

**Wednesday, May 21, 3:00 p.m. Jeffery 422**

**Summer Number Theory Seminar**

Speaker: M. Ram Murty  
Title: The Siegel-Klingen theorem revisited (continued)

**Abstract:** I will complete the proof of a classical theorem in theory of modular forms essential to the proof of the Siegel-Klingen theorem and introduce the relevant results from the theory of Hilbert modular forms.

**Thursday, May 22, 10:00 a.m. Jeffery 422**

**CYMS Seminar**

Speaker: Andre Perunicic  
Title: More on Fermat quotient zeta functions

**Abstract:** I will continue the discussion by describing singularities of Fermat quotients and how they affect the zeta function of minimal resolutions. Finally, we will examine possible applications to mirror symmetry.

Speaker: Simon Rose  
Title: Further computations in the B-model for E

**Abstract:** We will continue our discussion of the B-model computations for the elliptic curve, with the goal of being able to further the $g = 2$ case.
Friday, May 23, 11:00 a.m. Jeffery 101  
Statistics Seminar  
Speaker: Professor Jiajia Zhang  
Title: Kernel Smoothed Profile Likelihood Estimation in the Accelerated Failure time Frailty Model for Clustered Survival Data

Abstract: Clustered survival data frequently arise in biomedical applications, where event times of interest are clustered into groups such as families. In this article we consider an accelerated failure time frailty model for clustered survival data and develop nonparametric maximum likelihood estimation for it via a kernel smoother aided EM algorithm. We show that the proposed estimator for the regression coefficients is consistent, asymptotically normal and semiparametric efficient when the kernel bandwidth is properly chosen. An EM-aided numerical differentiation method is derived for estimating its variance. Simulation studies evaluate the finite sample performance of the estimator, and it is applied to the Diabetic Retinopathy data set.