University of Illinois at Urbana-Champaign
Department of Mathematics

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Key Ideas

- Mathematics at UIUC
- Historical development
- Division into research areas
- GAC
- CID
- Recent innovations
- Conclusions
Mathematics at UIUC

- 43 Professors
- 16 Associate Professors
- 18 Assistant Professors
- 8 Doob Postdocs
- 9 VIGRE Postdocs
- 3 Other Postdocs
- 14 Visiting Faculty
- 8 Visiting Scholars
- 7 Teaching Associates
Graduate Program

- Fall enrollment 2003 (196, 55 women)
- Applications

<table>
<thead>
<tr>
<th>Year</th>
<th>Appl.</th>
<th>Admits</th>
<th>Arrivals</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003</td>
<td>385</td>
<td>155</td>
<td>30 (budget cuts)</td>
</tr>
<tr>
<td>2002</td>
<td>372</td>
<td>177</td>
<td>52</td>
</tr>
<tr>
<td>2001</td>
<td>302</td>
<td>208</td>
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<td>2000</td>
<td>235</td>
<td>145</td>
<td>50</td>
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Historical Development

- Sputnik $\Rightarrow$ Scientific funding $\Rightarrow$ Increase in department size
- 1980, UIUC had 100 math professors
- 2003, UIUC has 77 math professors (also 10 in Statistics Department)
- Future
Research Areas

- Algebra
- Analysis
- Number Theory
- Logic
- Combinatorics and Optimization
- Geometry and Topology
- Differential Equations and Applied Math
- Probability
- Algebraic Geometry
Recent Innovations

- Redesign of comps (1996)
  - Breadth and depth
  - Interdisciplinary mathematics
- Math 400
- Math 500
- RAPs (VIGRE)
- REGs (2003)
- AVC (2003)
GAC and CID

- Used GAC for CID discussions
- Time to degree report
- Mentoring report
- Creation of REGs
- Creation of AVC
- Endless discussion of exam system
- CID survey
Conclusions

- Graduate program requires deeper discussion
  - AVC
  - Use CID to launch discussion
- Eliminate division into subject areas
- More RAPs, REGs, etc.
- Better research teamwork
  - Move towards physics model?
  - Faculty involvement in graduate student research