# Studies Plan

## EDMA - Mathematics 2019-20

### Core courses

<table>
<thead>
<tr>
<th>Courses</th>
<th>Exam</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data Analysis for Science and Engineering</strong></td>
<td>Davison Goldstein  Goldstein Morgenthaler Panaretos</td>
<td></td>
</tr>
<tr>
<td>(Next time: Spring 2019)</td>
<td>Multiple</td>
<td>4</td>
</tr>
<tr>
<td><strong>Etale cohomology</strong></td>
<td>Patakfalvi</td>
<td></td>
</tr>
<tr>
<td>(Next time: Spring 2020)</td>
<td>Oral presentation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Topics in geometric analysis I</strong></td>
<td>Troyanov</td>
<td></td>
</tr>
<tr>
<td>(Next time: Spring 2021)</td>
<td>Oral</td>
<td>2</td>
</tr>
<tr>
<td><strong>Topics in geometric analysis II</strong></td>
<td>Troyanov</td>
<td></td>
</tr>
<tr>
<td>(Next time: Spring 2020)</td>
<td>Oral</td>
<td>2</td>
</tr>
<tr>
<td><strong>Topics in the theory of reductive algebraic groups, Lie algebras, and representation theory I (2019)</strong></td>
<td>Testerman</td>
<td></td>
</tr>
<tr>
<td>(Every year. Next time: Fall 2019)</td>
<td>Oral presentation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Topics in the theory of reductive algebraic groups, Lie algebras, and representation theory II</strong></td>
<td>Testerman</td>
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<tr>
<td><strong>Working group in Topology I</strong></td>
<td>Hess</td>
<td></td>
</tr>
<tr>
<td>(Next time Fall 2019)</td>
<td>Bellwald</td>
<td></td>
</tr>
<tr>
<td><strong>Working group in Topology II</strong></td>
<td>Hess</td>
<td></td>
</tr>
<tr>
<td>(Next time Spring 2020)</td>
<td>Bellwald</td>
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### Other doctoral courses (EDOC)

<table>
<thead>
<tr>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td><strong>Advanced Topics in Cryptology</strong></td>
<td>Lenstra</td>
<td></td>
</tr>
<tr>
<td>(Next time: Fall 2019)</td>
<td>Oral presentation</td>
<td>3</td>
</tr>
</tbody>
</table>