

```
1 <!-- Google Tag Manager -->
2 <script>(function(w,d,s,l,i){w[l]=w[l]||
  [];w[l].push({'gtm.start':
3 new Date().getTime(),event:'gtm.js'});var
  f=d.getElementsByTagName(s)[0],
4 j=d.createElement(s),dl=l!='dataLayer'?'&l='+l:'';j.async=true;j.src=
5 'https://www.googletagmanager.com/gtm.js?
  id='+i+dl;f.parentNode.insertBefore(j,f);
6 })(window,document,'script','dataLayer','GTM-KFPJ4JX');
</script>
7 <!-- End Google Tag Manager -->
8 <!--MathJax Script for Latex-->
9 <script type="text/javascript"
10     src="http://cdn.mathjax.org/mathjax/latest/MathJax.js">
11     MathJax.Hub.Config({
12         extensions:
13         ["tex2jax.js","TeX/AMSmath.js","TeX/AMSSymbols.js"],
14         jax: ["input/TeX","output/HTML-CSS"],
15         tex2jax: {
16             inlineMath: [['$','$']],
17             processEscapes: true,
18         },
19     });
</script>
20 <!--MathJax Script for Latex-->
21 <script src="sorttable.js"></script>
22 <!------MathJax Script 2019 for Latex---->
23 <script src="https://polyfill.io/v3/polyfill.min.js?
  features=es6"></script>
24 <script id="MathJax-script" async
  src="https://cdn.jsdelivr.net/npm/mathjax@3/es5/tex-mml-
  chtml.js"></script>
25 <!-------Mathjax Scripts 2018 for latex---->
26
27 <!--For Sorting tables-->
28 <script src="sorttable.js"></script>
29 <!--For sorttable tables-->
30 <!-------Start of
  HTML Document----->
31
```

```
<!--CSS for Tables-->
32 <style>table, th, td, tr {
33     border: 1px solid black;
34 }</style>
35
36 <style>th, td, tr {
37     text-align: left;
38 }</style>
39
40 <!--Dror Bar Natan Global CSS-->
41 <style>a:hover {text-decoration: none;}
42
43 a:hover.external {text-decoration: none;}
44 a:link.external {COLOR: black;}
45 a:visited.external {COLOR:rgb(48,48,48);}
46
47 img.tex {vertical-align: middle;}
48
49 .thumb {
50     padding: 10px;
51     text-align: center;
52     display: inline-block;
53     width: 200px;
54     word-wrap: break-word;
55 }</style>
56 <!-------Dror Bar Natan CSS----->
57
58
59
60
61 <header>
62
63     (ɔ) | <a href="https://blueworks.github.io">Jai
Ramanathan</a>
64     : <a
href="https://blueworks.github.io/templates/Academic%20Peni
seve.html">Academic Peniseve</a>
65     : <a href="01.html">2019/01</a>
66 </header>
67
68
```

```

69 <header>
70 <table border="0">
71   <tr>
72     <th><h1><a href="2019/01.html"><<-----
-----</a><h1></th>
73     <th><h1><a href="2019/02/html">2019/02</a><h1></th>
74     <th><h1><a href="2019/03.html">-----
----->></a><h1></th>
75   </tr>
76 </table>
77 </header>
78
79 <div>
80 <table>
81   <tr>
82     <td><table><h1><b>Index<b><h1></table></td>
83     <td><table><h1><b>Summary<b><h1></table></td>
84     <td><table><h1><b>/others<b><h1></table></td>
85   </tr>
86   <tr>
87     <td><table><a href="Index.pdf">Index</a></table></td>
88     <td>
89     <table>wefwefwefwefwwewefwjefjweifjweowfefwefwefwefwegur,wgh
90     9uhguehrgqehrghqeurhgquerhuigqerhugiqehrghqeiurghqieurhgqehr
91     ugqer
92     qerkg0qejr0gqergjqe9rjgqerg
93     ergjqie9rjg9qejr9iqejrgjqergjeri9urgjqegjqerjger
94     wewefwjefjweifjweowfefwefwefwefwegur,wgh9uhguehrgqehrghqeurh
95     gquerhuigqerhugiqehrghqeiurghqieurhgqehrugqer
96     qerkg0qejr0gqergjqe9rjgqerg
97     ergjqie9rjg9qejr9iqejrgjqergjeri9urgjqegjqerjger</table>
</td>

```

```

    <td>
<table>wefwefwefwefwwewefwjefjweifjweowfefwefwefwefwegur,wgh
9uhguehrgqehrghqeurhgquerhuigqerhugiqehrghqeiurghqieurhgqehr
ugqer
    98         qerkg0qejr0gqergjqe9rjgqerg
    99         ergjqie9rjg9qejr9iqejrgjqergjeri9urgjqegjqerjger
100
wewefwjefjweifjweowfefwefwefwefwegur,wgh9uhguehrgqehrghqeurh
gquerhuigqerhugiqehrghqeiurghqieurhgqehrugqer
101         qerkg0qejr0gqergjqe9rjgqerg
102         ergjqie9rjg9qejr9iqejrgjqergjeri9urgjqegjqerjger
103
wewefwjefjweifjweowfefwefwefwefwegur,wgh9uhguehrgqehrghqeurh
gquerhuigqerhugiqehrghqeiurghqieurhgqehrugqer
104         qerkg0qejr0gqergjqe9rjgqerg
105
ergjqie9rjg9qejr9iqejrgjqergjeri9urgjqegjqerjger</table>
</td>
106     </tr>
107 </table>
108 </div>
109
110
111
112 <div>
113 <table>
114     <tr>
115         <td><table><h1><b>Week<b><h1></table></td>
116         <td><table><h1><b>Front page<b><h1></table></td>
117         <td><table><h1><b>Back Page<b><h1></table></td>
118         <td><table><h1><b>Date Range<b><h1></table></td>
119     </tr>
120     <tr>
121         <td><b><h2>Week 01<h2><b></td>
122         <td><a href="01f.pdf">01f.pdf</a></td>
123         <td><a href="01b.pdf">01b.pdf</a></td>
124         <td></td>
125     </tr>
126     <tr>
127         <td><b><h2>Week 02<h2><b></td>
128

```

```

129 <td><a href="02f.pdf">02f.pdf</a></td>
130 <td><a href="02b.pdf">02b.pdf</a></td>
131 <td></td>
132 </tr>
133 <tr>
134 <td><b><h2>Week 03<h2><b></td>
135 <td><a href="03f.pdf">03f.pdf</a></td>
136 <td><a href="03b.pdf">03b.pdf</a></td>
137 <td></td>
138 </tr>
139 <tr>
140 <td><b><h2>Week 04<h2><b></td>
141 <td><a href="04f.pdf">04f.pdf</a></td>
142 <td><a href="04b.pdf">04b.pdf</a></td>
143 <td></td>
144 </tr>
145 </table>
146 </div>
147 <p style="color:black;font-size:100px;">Studied this
148 Month</p>
149 <table class=sortable border=1 cellspacing=0>
150 <tr><th>&nbsp;</th><th>Studied </th><th>Local Copy</th>
151 <th>Date Studied on</th><th>Details</th><th>Summary</th>
152 </tr>
153 <tr align=left>
154 <td align=right>1</td>
155 <td><a href=>CapsAndCups-0</a></td>
156 <td align=center><a href="huhuuu">source</a></td>
157 <td align=center>2019-09-20</td>
158 <td align=center>sdvsidjvsidjvisjdvisjdvsvdvs Hiiii
159 jeifwiefjwiejfiwr rgqeirjgqjerigjqeirjgjqeirjgqerjgeqjirgqe
160 irghiergierigqerjgeqrgjqerg
161 ergjqie9rjg9qejrjg9iqejrgjqergjeri9urgjqegjqerjgerrh
162 rgiejrgjerigjiernjerg ergjeojrgergoejorge
163 ergeorjgoerjgeogjege rgergergergerogre
164 engerg9ergoeigerigerge ergerigierge Hiiii jeifwiefjwiejfiwr
165 rgqeirjgqjerigjqeirjgjqeirjgqerjgeqjirgqe

```

```
inghiergi qerig qerjge qrgjqerg
ergjqie9rjg9qejrg9iqejrgjqd ergj eri9urgjqegjqd ergjerrh
158   rgiejrgjjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
engerg9ergoeigerigerge ergerigierge Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
inghiergi qerig qerjge qrgjqerg
ergjqie9rjg9qejrg9iqejrgjqd ergj eri9urgjqegjqd ergjerrh
159   rgiejrgjjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
engerg9ergoeigerigerge ergerigierge Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
inghiergi qerig qerjge qrgjqerg
ergjqie9rjg9qejrg9iqejrgjqd ergj eri9urgjqegjqd ergjerrh
160   rgiejrgjjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
engerg9ergoeigerigerge ergerigierge Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
inghiergi qerig qerjge qrgjqerg
ergjqie9rjg9qejrg9iqejrgjqd ergj eri9urgjqegjqd ergjerrh
161   rgiejrgjjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
engerg9ergoeigerigerge ergerigierge
162   Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
inghiergi qerig qerjge qrgjqerg
ergjqie9rjg9qejrg9iqejrgjqd ergj eri9urgjqegjqd ergjerrh
163   rgiejrgjjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
engerg9ergoeigerigerge ergerigierge</td>
164   <td>Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
inghiergi qerig qerjge qrgjqerg
ergjqie9rjg9qejrg9iqejrgjqd ergj eri9urgjqegjqd ergjerrh
165   rgiejrgjjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
engerg9ergoeigerigerge ergerigierge</td>
166   <tr align=left>
167   <td align=right>2</td>
168   <td><a href="nb/CC4NOE-1.pdf">CC4NOE-1 Hiiii
```

```

jeifwiefjwiejfiwr rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
irghiergiqerigqerjgeqrgjqerg
ergjqie9rjg9qejrjg9iqejrgjqdergjeri9urgjqegjqerjgerrh
169   rgiejrgjerigjierngjerng ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
engerg9ergoeigerigerge ergerigierge</a></td>
170   <td align=center><a href="CC4NOE-1.nb">source</a></td>
171   <td align=center>2016-08-11 11:39:15</td>
172   <td align=center>Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
irghiergiqerigqerjgeqrgjqerg
ergjqie9rjg9qejrjg9iqejrgjqdergjeri9urgjqegjqerjgerrh
173   rgiejrgjerigjierngjerng ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
engerg9ergoeigerigerge ergerigierge</td>
174   <td>Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
irghiergiqerigqerjgeqrgjqerg
ergjqie9rjg9qejrjg9iqejrgjqdergjeri9urgjqegjqerjgerrh
175   rgiejrgjerigjierngjerng ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
engerg9ergoeigerigerge ergerigierge</td>
176   <tr align=left>
177   <td align=right>3</td>
178   <td><a href="nb/CC4NOE-1t.pdf">CC4NOE-1t</a></td>
179   <td align=center><a href="CC4NOE-1t.nb">source</a></td>
180   <td align=center>2016-08-17 08:08:56</td>
181   <td align=center>2016-08-18 16:19:46</td>
182   <td>Solving for caps and cups for NOE-1, t variables.
</td>
183   <tr align=left>
184   <td align=right>4</td>
185   <td><a href="nb/ErrorCorrection.pdf">ErrorCorrection</a>
</td>
186   <td align=center><a href="ErrorCorrection.nb">source</a>
</td>
187   <td align=center>2016-07-04 10:37:09</td>
188   <td align=center>2016-07-30 23:06:36</td>
189   <td>Finding the most general R using low algebra -
automatic error correction.</td>
190

```

```

191 <tr align=left>
192 <td align=right>5</td>
193 <td><a href="nb/FindingTheForm.pdf">FindingTheForm</a>
194 </td>
195 <td align=center><a href="FindingTheForm.nb">source</a>
196 </td>
197 <td align=center>2016-08-14 13:40:44</td>
198 <td align=center>2016-08-15 15:11:51</td>
199 <td>&nbsp;</td>
200 <tr align=left>
201 <td align=right>6</td>
202 <td><a href="nb/G0.pdf">G0</a></td>
203 <td align=center><a href="G0.nb">source</a></td>
204 <td align=center>2016-07-27 20:47:27</td>
205 <td align=center>2016-08-03 14:48:36</td>
206 <td>Verifying the commutation relations of frakg_0.</td>
207 <tr align=left>
208 <td align=right>7</td>
209 <td><a href="nb/G1.pdf">G1</a></td>
210 <td align=center><a href="G1.nb">source</a></td>
211 <td align=center>2016-08-04 13:54:59</td>
212 <td align=center>2017-02-11 11:39:04</td>
213 <td>Verifying the commutation relations of frakg_1.</td>
214 <tr align=left>
215 <td align=right>8</td>
216 <td><a href="nb/MonomialGames.pdf">MonomialGames</a>
217 </td>
218 <td align=center><a href="MonomialGames.nb">source</a>
219 </td>
220 <td align=center>2016-08-06 20:14:57</td>
221 <td align=center>2016-08-07 08:56:34</td>
222 <td>&nbsp;</td>
223 <tr align=left>
224 <td align=right>9</td>
225 <td><a href="nb/MostGeneralR.pdf">MostGeneralR</a></td>
226 <td align=center><a href="MostGeneralR.nb">source</a>
227 </td>
228 <td align=center>2016-07-03 13:45:22</td>
229 <td align=center>2016-07-30 23:20:13</td>
230 <td>Finding the most general R using low algebra, now

```

```

with a balanced basis.</td>
225 <tr align=left>
226 <td align=right>10</td>
227 <td><a href="nb/NOE-0.pdf">NOE-0</a></td>
228 <td align=center><a href="NOE-0.nb">source</a></td>
229 <td align=center>2016-08-03 11:06:14</td>
230 <td align=center>2016-08-14 12:17:45</td>
231 <td>Normally Ordered Exponentials at 0-Co.</td>
232 <tr align=left>
233 <td align=right>11</td>
234 <td><a href="nb/NOE-0t.pdf">NOE-0t</a></td>
235 <td align=center><a href="NOE-0t.nb">source</a></td>
236 <td align=center>2016-08-12 08:50:27</td>
237 <td align=center>2016-08-15 14:14:14</td>
238 <td>Normally Ordered Exponentials at 0-Co in the t
variables.</td>
239 <tr align=left>
240 <td align=right>12</td>
241 <td><a href="nb/NOE-1.pdf">NOE-1</a></td>
242 <td align=center><a href="NOE-1.nb">source</a></td>
243 <td align=center>2016-08-05 14:24:16</td>
244 <td align=center>2016-08-19 14:21:06</td>
245 <td>Normally Ordered Exponentials at 1-Co.</td>
246 <tr align=left>
247 <td align=right>13</td>
248 <td><a href="nb/NOE-1t.pdf">NOE-1t</a></td>
249 <td align=center><a href="NOE-1t.nb">source</a></td>
250 <td align=center>2016-08-14 13:23:57</td>
251 <td align=center>2016-08-18 07:00:56</td>
252 <td>Normally Ordered Exponentials at 1-Co in the t
variables.</td>
253 <tr align=left>
254 <td align=right>14</td>
255 <td><a href="nb/OneCo.pdf">OneCo</a></td>
256 <td align=center><a href="OneCo.nb">source</a></td>
257 <td align=center>2016-07-01 10:44:39</td>
258 <td align=center>2016-08-13 09:27:12</td>
259 <td>The OneCo project using the (b-ε;c)-
scapegoated low algebra.</td>
260 <tr align=left>
261

```

```

262 <td align=right>15</td>
    <td><a
263 href="nb/RescalingTheLogos.pdf">RescalingTheLogos</a></td>
    <td align=center><a
264 href="RescalingTheLogos.nb">source</a></td>
    <td align=center>2016-08-11 19:17:53</td>
265 <td align=center>2016-08-15 15:12:00</td>
266 <td>&nbsp;</td>
267 <tr align=left>
268 <td align=right>16</td>
    <td><a href="nb/Testing.pdf">Testing</a></td>
269 <td align=center><a href="Testing.nb">source</a></td>
270 <td align=center>2016-07-01 11:02:42</td>
271 <td align=center>2016-11-19 11:55:18</td>
272 <td>Testing OneCo.</td>
273 <tr align=left>
274 <td align=right>17</td>
275 <td><a href="nb/TheBraidLogos.pdf">TheBraidLogos</a>
276 </td>
    <td align=center><a href="TheBraidLogos.nb">source</a>
277 </td>
    <td align=center>2016-08-26 08:19:19</td>
278 <td align=center>2016-08-26 08:19:19</td>
279 <td>&nbsp;</td>
280 <tr align=left>
281 <td align=right>18</td>
282 <td><a href="nb/TheTrefoil.pdf">TheTrefoil</a></td>
283 <td align=center><a href="TheTrefoil.nb">source</a></td>
284 <td align=center>2016-08-18 13:09:36</td>
285 <td align=center>2016-08-19 14:22:34</td>
286 <td>The invariant of the trefoil, using data from
287 CC4NOE-1t.nb.</td>
288 <tr align=left>
289 <td align=right>19</td>
290 <td><a href="nb/Untitled-160810.pdf">Untitled-160810</a>
    </td>
    <td align=center><a href="Untitled-160810.nb">source</a>
291 </td>
    <td align=center>2016-08-10 11:49:13</td>
292 <td align=center>2016-08-10 13:47:16</td>
293
294

```

```
295     <td>&nbsp;</td>
296   <tr align=left>
297     <td align=right>20</td>
298     <td><a href="nb/VdVAlgebraAt0.pdf">VdVAlgebraAt0</a>
299     </td>
300     <td align=center><a href="VdVAlgebraAt0.nb">source</a>
301     </td>
302     <td align=center>2016-07-31 17:48:39</td>
303     <td align=center>2016-08-01 12:51:26</td>
304     <td>Implementing the scapegoated VdV algebra of <a
305     href="http://drorbn.net/bbs/show?shot=VanDerVeen-160731-
306     121550.jpg">http://drorbn.net/bbs/show?shot=VanDerVeen-
307     160731-121550.jpg</a>.</td>
308   <tr align=left>
309     <td align=right>21</td>
310     <td><a href="nb/VdVAlgebraAt1.pdf">VdVAlgebraAt1</a>
311     </td>
312     <td align=center><a href="VdVAlgebraAt1.nb">source</a>
313     </td>
314     <td align=center>2016-08-02 11:12:13</td>
315     <td align=center>2016-08-02 14:29:23</td>
316     <td>Implementing the scapegoated VdV algebra of <a
317     href="http://drorbn.net/bbs/show?shot=VanDerVeen-160731-
318     121550.jpg">http://drorbn.net/bbs/show?shot=VanDerVeen-
319     160731-121550.jpg</a>.</td>
320   <tr align=left>
321     <td align=right>22</td>
322     <td><a href="nb/VdVAlgebraAt1-
323     Testing.pdf">VdVAlgebraAt1-Testing</a></td>
324     <td align=center><a href="VdVAlgebraAt1-
325     Testing.nb">source</a></td>
326     <td align=center>2016-08-02 11:33:51</td>
327     <td align=center>2016-08-02 14:51:08</td>
328     <td>&nbsp;</td>
329   <tr align=left>
330     <td align=right>23</td>
331     <td><a
332     href="nb/VdVComparissonAt0.pdf">VdVComparissonAt0</a></td>
333     <td align=center><a
334     href="VdVComparissonAt0.nb">source</a></td>
```

```

321     <td align=center>2016-07-31 16:12:38</td>
322     <td align=center>2016-08-01 15:26:51</td>
323     <td>Comparing frakg_1 with Roland's picture.</td>
324 <tr align=left>
325 <td align=right>24</td>
326     <td><a href="nb/VdVComparisson.pdf">VdVComparisson</a>
327 </td>
328     <td align=center><a href="VdVComparisson.nb">source</a>
329 </td>
330     <td align=center>2016-07-31 14:38:28</td>
331     <td align=center>2016-08-01 13:18:05</td>
332     <td>Comparing frakg_1 with Roland's picture.</td>
333 <tr align=left>
334 <td align=right>25</td>
335     <td><a href="nb/YB4NOE-1.pdf">YB4NOE-1</a></td>
336     <td align=center><a href="YB4NOE-1.nb">source</a></td>
337     <td align=center>2016-08-07 11:27:09</td>
338     <td align=center>2016-08-09 16:56:36</td>
339     <td>Finding the YB element for NOE-1.</td>
340 <tr align=left>
341 <td align=right>26</td>
342     <td><a href="nb/YB4NOE-1t.pdf">YB4NOE-1t</a></td>
343     <td align=center><a href="YB4NOE-1t.nb">source</a></td>
344     <td align=center>2016-08-16 14:44:04</td>
345     <td align=center>2016-08-16 19:38:01</td>
346     <td>Finding the YB element for NOE-1t.</td>
347 </table>
348
349 <table>
350 <table align="left">
351 <tr>
352     <th>Videos</th>
353     <th>Photos</th>
354     <th>Codes</th>
355 </tr>
356 </table>

```