```
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=tr
    ue;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:
    ["tex2jax.js","TeX/AMSmath.js","TeX/AMSsymbols.js"],
13        jax: ["input/TeX","output/HTML-CSS"],
14        tex2jax: {
15            inlineMath: [['$','$']],
16            processEscapes: true,
17        },
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--->
<style>table, th, td, tr {
  border: 1px solid black;
}</style>

<style>th, td,tr {
  text-align: left;
}</style>

<!---Dror Bar Natan Global CSS-->
<style>a:hover {text-decoration: none;}

a:hover.external {text-decoration: none;}
a:link.external {COLOR: black;}
a:visited.external {COLOR:rgb(48,48,48);}

img.tex {vertical-align: middle;}

.thumb {
  padding: 10px;
  text-align: center;
  display: inline-block;
  width: 200px;
  word-wrap: break-word;
}</style>
<!------Dror Bar Natan CSS---->



<header>

  (ɔ)|<a href="https://bluewworks.github.io">Jai
Ramanathan</a>
  :<a
href="https://bluewworks.github.io/templates/Academic%20Peni
seve.html">Academic Peniseve</a>
  :<a href="01.html">2019/01</a>
</header>
```

```
<header>
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<table border="0">
  <tr>
    <th><h1><a href="2019/01.html"><<----------------------
-----------------------</a><h1></th>
    <th><h1><a href="2019/02/html">2019/02</a><h1></th>
    <th><h1><a href="2019/03.html">----------------------
--------------------->></a><h1></th>
  </tr>
</table>
</header>

<div>
<table>
  <tr>
    <td><table><h1><b>Index<b><h1></table></td>
    <td><table><h1><b>Summary<b><h1></table></td>
    <td><table><h1><b>/others<b><h1></table></td>
  </tr>
  <tr>
    <td><table><a href="Index.pdf">Index</a></table></td>
    <td>
<table>wefwefwefwefwwewefwjefjweifjweowfefwefwefwefwegur,wgh
9uhguehrgqehrghqeurhgquerhuigqerhugiqehrghqeiurghqieurhgqehr
ugqer
        qerkg0qejr0gqergjqe9rjgqerg
        ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjger

wewefwjefjweifjweowfefwefwefwefwegur,wgh9uhguehrgqehrghqeurh
gquerhuigqerhugiqehrghqeiurghqieurhgqehrugqer
        qerkg0qejr0gqergjqe9rjgqerg
        ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjger

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gquerhuigqerhugiqehrghqeiurghqieurhgqehrugqer
        qerkg0qejr0gqergjqe9rjgqerg

ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjger</table>
</td>
```

```
        <td>
<table>wefwefwefwefwwewefwjefjweifjweowfefwefwefwefwegur,wgh
9uhguehrgqehrghqeurhgquerhuigqerhugiqehrghqeiurghqieurhgqehr
ugqer
98          qerkg0qejr0gqergjqe9rjgqerg
99          ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjger
100
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gquerhuigqerhugiqehrghqeiurghqieurhgqehrugqer
101         qerkg0qejr0gqergjqe9rjgqerg
102         ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjger
103
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gquerhuigqerhugiqehrghqeiurghqieurhgqehrugqer
104         qerkg0qejr0gqergjqe9rjgqerg
105
ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjger</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
```

```
          <td><a href="02f.pdf">02f.pdf</a></td>
129       <td><a href="02b.pdf">02b.pdf</a></td>
130       <td></td>
131     </tr>
132     <tr>
133       <td><b><h2>Week 03<h2><b></td>
134       <td><a href="03f.pdf">03f.pdf</a></td>
135       <td><a href="03b.pdf">03b.pdf</a></td>
136       <td></td>
137     </tr>
138     <tr>
139       <td><b><h2>Week 04<h2><b></td>
140       <td><a href="04f.pdf">04f.pdf</a></td>
141       <td><a href="04b.pdf">04b.pdf</a></td>
142       <td></td>
143     </tr>
144  </table>
145    </div>
146
147  <p style="color:black;font-size:100px;">Studied this
     Month</p>
148
149   <table class=sortable border=1 cellspacing=0>
150  <tr><th> </th><th>Studied </th><th>Local Copy</th>
     <th>Date Studied on</th><th>Details</th><th>Summary</th>
     </tr>
151     <tr align=left>
152  <td align=right>1</td>
153       <td><a href=>CapsAndCups-0</a></td>
154       <td align=center><a href="huhuuhu">source</a></td>
155       <td align=center>2019-09-20</td>
156       <td align=center>sdvsidjvsidjvisjdvisjdvsdvsv Hiiii
     jeifwiefjwiejfiwr rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
     irghiergiqerigqerjgeqrgjqerg
     ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjgerrh
157      rgiejrgjerigjiergjerg ergjeojrgergoejorge
     ergeorjgoerjgeogjege rgergeirgeigerogre
     ergerg9ergoeigerigerge ergerigierge Hiiii jeifwiefjwiejfiwr
     rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
```

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irghiergiqerigqerjgeqrgjqerg
ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjgerrh
     rgiejrgjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
ergerg9ergoeigerigerge ergerigierge Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
irghiergiqerigqerjgeqrgjqerg
ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjgerrh
     rgiejrgjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
ergerg9ergoeigerigerge ergerigierge Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
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ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjgerrh
     rgiejrgjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
ergerg9ergoeigerigerge ergerigierge Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
irghiergiqerigqerjgeqrgjqerg
ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjgerrh
     rgiejrgjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
ergerg9ergoeigerigerge ergerigierge
     Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
irghiergiqerigqerjgeqrgjqerg
ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjgerrh
     rgiejrgjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
ergerg9ergoeigerigerge ergerigierge</td>
     <td>Hiiii jeifwiefjwiejfiwr
rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
irghiergiqerigqerjgeqrgjqerg
ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjgerrh
     rgiejrgjerigjiergjerg ergjeojrgergoejorge
ergeorjgoerjgeogjege rgergeirgeigerogre
ergerg9ergoeigerigerge ergerigierge</td>
  <tr align=left>
<td align=right>2</td>
     <td><a href="nb/CC4NOE-1.pdf">CC4NOE-1 Hiiii
```

```
     jeifwiefjwiejfiwr rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
     irghiergiqerigqerjgeqrgjqerg
     ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjgerrh
169        rgiejrgjerigjiergjerg ergjeojrgergoejorge
     ergeorjgoerjgeogjege rgergeirgeigerogre
     ergerg9ergoeigerigerge 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
     ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjgerrh
173        rgiejrgjerigjiergjerg ergjeojrgergoejorge
     ergeorjgoerjgeogjege rgergeirgeigerogre
     ergerg9ergoeigerigerge ergerigierge/td>
174      <td>Hiiii jeifwiefjwiejfiwr
     rgqeirjgqjerigjqeirjgiqejrigeqjirgqe
     irghiergiqerigqerjgeqrgjqerg
     ergjqie9rjg9qejrg9iqejrgjqergjeri9urgjqegjqerjgerrh
175        rgiejrgjerigjiergjerg ergjeojrgergoejorge
     ergeorjgoerjgeogjege rgergeirgeigerogre
     ergerg9ergoeigerigerge 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
```

```
        <tr align=left>
<td align=right>5</td>
        <td><a href="nb/FindingTheForm.pdf">FindingTheForm</a>
</td>
        <td align=center><a href="FindingTheForm.nb">source</a>
</td>
        <td align=center>2016-08-14 13:40:44</td>
        <td align=center>2016-08-15 15:11:51</td>
        <td> </td>
    <tr align=left>
<td align=right>6</td>
        <td><a href="nb/G0.pdf">G0</a></td>
        <td align=center><a href="G0.nb">source</a></td>
        <td align=center>2016-07-27 20:47:27</td>
        <td align=center>2016-08-03 14:48:36</td>
        <td>Verifying the commutation relations of frakg_0.</td>
    <tr align=left>
<td align=right>7</td>
        <td><a href="nb/G1.pdf">G1</a></td>
        <td align=center><a href="G1.nb">source</a></td>
        <td align=center>2016-08-04 13:54:59</td>
        <td align=center>2017-02-11 11:39:04</td>
        <td>Verifying the commutation relations of frakg_1.</td>
    <tr align=left>
<td align=right>8</td>
        <td><a href="nb/MonomialGames.pdf">MonomialGames</a>
</td>
        <td align=center><a href="MonomialGames.nb">source</a>
</td>
        <td align=center>2016-08-06 20:14:57</td>
        <td align=center>2016-08-07 08:56:34</td>
        <td> </td>
    <tr align=left>
<td align=right>9</td>
        <td><a href="nb/MostGeneralR.pdf">MostGeneralR</a></td>
        <td align=center><a href="MostGeneralR.nb">source</a>
</td>
        <td align=center>2016-07-03 13:45:22</td>
        <td align=center>2016-07-30 23:20:13</td>
        <td>Finding the most general R using low algebra, now
```

```
with a balanced basis.</td>
    <tr align=left>
<td align=right>10</td>
    <td><a href="nb/NOE-0.pdf">NOE-0</a></td>
    <td align=center><a href="NOE-0.nb">source</a></td>
    <td align=center>2016-08-03 11:06:14</td>
    <td align=center>2016-08-14 12:17:45</td>
    <td>Normally Ordered Exponentials at 0-Co.</td>
    <tr align=left>
<td align=right>11</td>
    <td><a href="nb/NOE-0t.pdf">NOE-0t</a></td>
    <td align=center><a href="NOE-0t.nb">source</a></td>
    <td align=center>2016-08-12 08:50:27</td>
    <td align=center>2016-08-15 14:14:14</td>
    <td>Normally Ordered Exponentials at 0-Co in the t
variables.</td>
    <tr align=left>
<td align=right>12</td>
    <td><a href="nb/NOE-1.pdf">NOE-1</a></td>
    <td align=center><a href="NOE-1.nb">source</a></td>
    <td align=center>2016-08-05 14:24:16</td>
    <td align=center>2016-08-19 14:21:06</td>
    <td>Normally Ordered Exponentials at 1-Co.</td>
    <tr align=left>
<td align=right>13</td>
    <td><a href="nb/NOE-1t.pdf">NOE-1t</a></td>
    <td align=center><a href="NOE-1t.nb">source</a></td>
    <td align=center>2016-08-14 13:23:57</td>
    <td align=center>2016-08-18 07:00:56</td>
    <td>Normally Ordered Exponentials at 1-Co in the t
variables.</td>
    <tr align=left>
<td align=right>14</td>
    <td><a href="nb/OneCo.pdf">OneCo</a></td>
    <td align=center><a href="OneCo.nb">source</a></td>
    <td align=center>2016-07-01 10:44:39</td>
    <td align=center>2016-08-13 09:27:12</td>
    <td>The OneCo project using the (b-&epsilon;c)-
scapegoated low algebra.</td>
    <tr align=left>
```

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

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

```
        <td align=center>2016-07-31 16:12:38</td>
        <td align=center>2016-08-01 15:26:51</td>
        <td>Comparing frakg_1 with Roland's picture.</td>
    <tr align=left>
<td align=right>24</td>
        <td><a href="nb/VdVComparisson.pdf">VdVComparisson</a>
</td>
        <td align=center><a href="VdVComparisson.nb">source</a>
</td>
        <td align=center>2016-07-31 14:38:28</td>
        <td align=center>2016-08-01 13:18:05</td>
        <td>Comparing frakg_1 with Roland's picture.</td>
    <tr align=left>
<td align=right>25</td>
        <td><a href="nb/YB4NOE-1.pdf">YB4NOE-1</a></td>
        <td align=center><a href="YB4NOE-1.nb">source</a></td>
        <td align=center>2016-08-07 11:27:09</td>
        <td align=center>2016-08-09 16:56:36</td>
        <td>Finding the YB element for NOE-1.</td>
    <tr align=left>
<td align=right>26</td>
        <td><a href="nb/YB4NOE-1t.pdf">YB4NOE-1t</a></td>
        <td align=center><a href="YB4NOE-1t.nb">source</a></td>
        <td align=center>2016-08-16 14:44:04</td>
        <td align=center>2016-08-16 19:38:01</td>
        <td>Finding the YB element for NOE-1t.</td>
</table>

<table>
<table align="left">
    <tr>
        <th>Videos</th>
        <th>Photos</th>
        <th>Codes</th>
    </tr>
</table>
```