June 19, 2002

draw birdtracks using Xfig alias:
alias Xfig 'xfig -P -me -mo -eeps -ph 5 -pw 16 -fl -right -geom 640x603+630+10'
in directory alf.nbi.dk:~DasGroup/book/xfig/
then export *.eps files to directory
alf.nbi.dk:~DasGroup/book/figs/

Important that the heights are all the same: can use invisible vertical lines

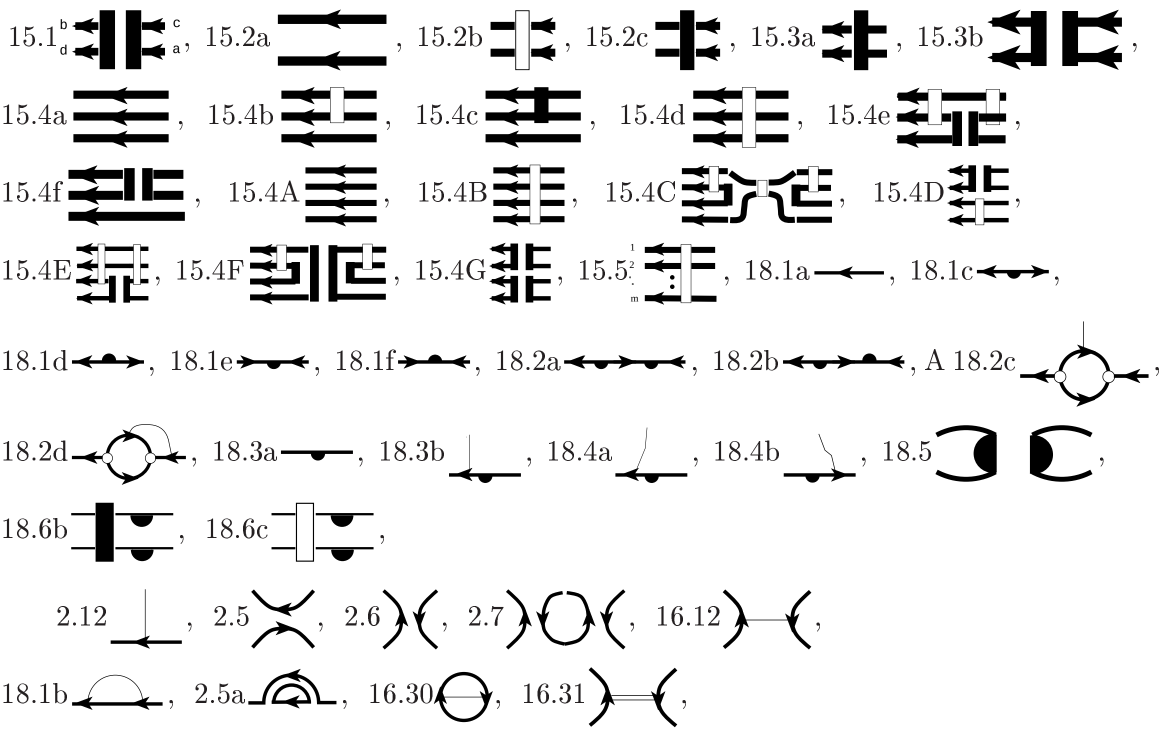
height3 height5

to guarantee that the figure is 3, 5 cm high respectively.

3 cm birdtracks

- use command \btrack{eq.no}:

$U(n)$ family:



G_2 family:

16.1a, 16.1b, 16.2a, 16.2b,

3.6, 16.3a, 16.3b, 16.3c, 16.3d,

16.3e, 16.3f, 16.4a, 16.4f, 16.9a,

16.9f, 16.12a, 16.25, 16.32,

16.33, 16.40, 16.40a, 16.40b, 16.40c,

16.40d, 16.40e, 16.40f, 16.40g,

16.40h, 16.40i, 16.40j, 16.40k,

8.30a, 8.30b, 8.31, 8.32, 8.32a,

8.33, 8.34, 8.35, 8.36,

F_4 family:

f4.1a, f4.1b, f4.2a, f4.2b, f4.3a,

f4.3d, f4.3e, f4.3f, f4.6, f4.12a,

f4.12b, f4.14,

Adjoint rep:

3.96a, 3.96b, 3.96c, 3.98,

3.97a, 3.97b, 3.100, 2.9f,

3.100a, 3.100b, 3.100c,

3.101a, 3.101b, 3.101c,

2.8 , 2.8a , 2.8b , 2.8c ,

2.9 , 2.9a , 2.9b , 2.9c ,

2.9d , 2.9e , 2.10 ,

17.1a , 17.1b , 17.1c , 17.2a , 17.2b ,

17.2c , 17.2d , 17.2e , 17.2f , 17.2g , 17.3 , 17.3a ,

17.4a , 17.4b , 17.4c , 17.4d , 17.6a , 17.6b ,

17.6c ,

17.6d , 17.6e , 17.8 , 17.8a , 17.8b ,

17.D1 , 17.D2 , 17.D3 , 17.D3a , 17.D4 ,

17.D6 , 17.D7 , 17.D8 , 17.16a , 17.16b ,

17.D9 , 17.D9a , 17.D9b , 17.D11 ,

17.D16 , 17.D17 , 17.D17a , 17.D17b ,

E_6 family:

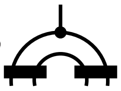
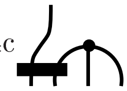
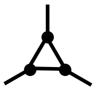
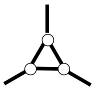
18.1c , 2.13 , 18.1bb , 18.1cc , 18.2 ,

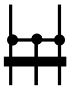
18.1g , 18.1h , 18.1i ,

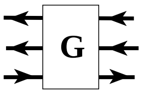
4 cm birdtracks

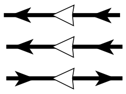
- use command \btrackA{eq.no}:

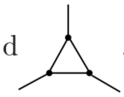
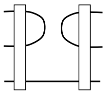
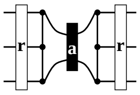
A 16.13d , A 16.13k , A 16.13i , A 16.13e ,

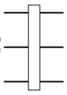
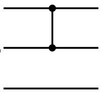
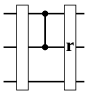
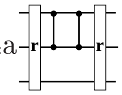
A 16.13f , A 16.5 , A 16.14 , A 16.14a , A 16.14b , A 16.14c , A 16.17 , A f4.13 ,

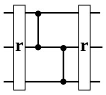
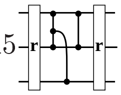
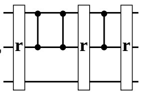
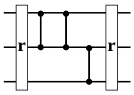
A 16.21 ,

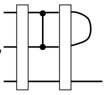
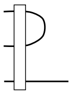
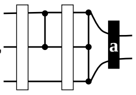
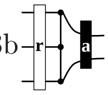
A 2.1a 

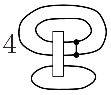
, A 2.1b ,

A 17.1d , A 17.A1 , A 17.A1b ,

A 17.A2 , A 17.A3a , A 17.A3b , A 17.A4a ,

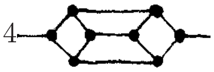
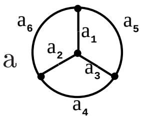
A 17.A4b , A 17.A5 , A 17.A6a , A 17.A6b ,

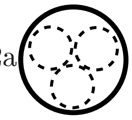
A 17.A12a , A 17.A12b , A 17.A13a , A 17.A13b ,

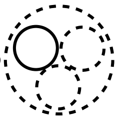
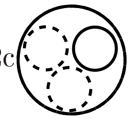
A 17.A14 ,

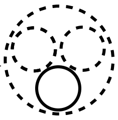
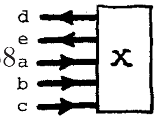
5 cm birdtracks

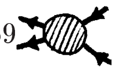
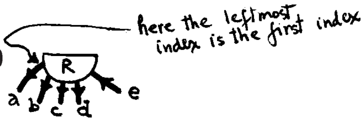
- use command \btrackB{eq.no}:

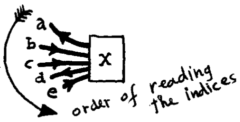
1-1  2-14  B 8.41a 

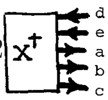
, B 8.42a ,

B 8.42b , B 8.42c ,

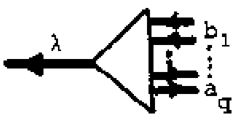
B 8.42d , B 8.43a , B 3-58 

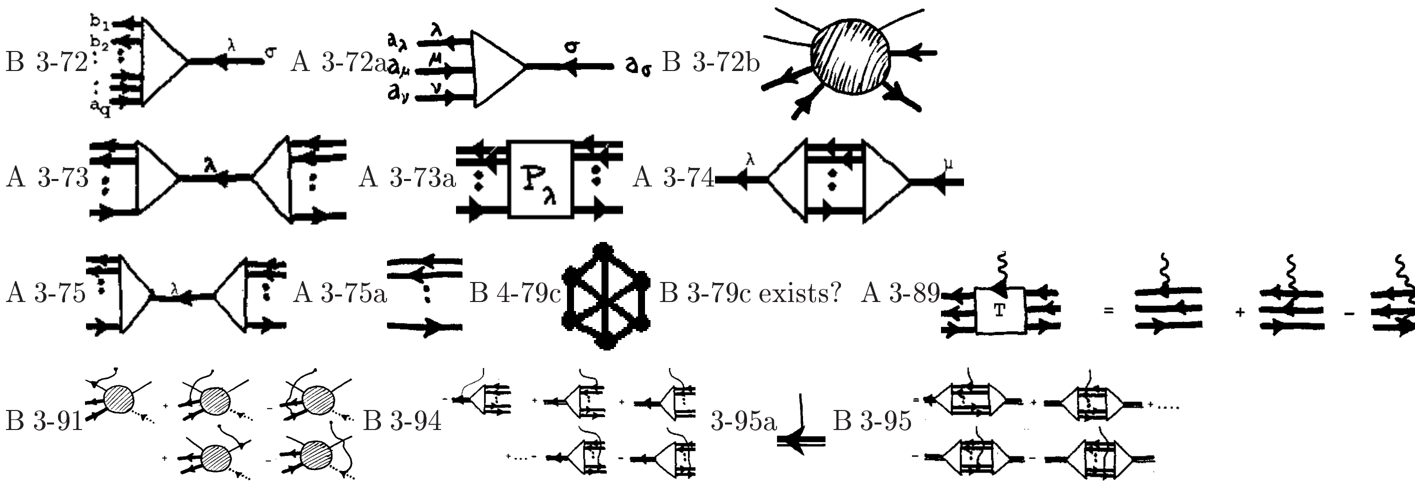
3-59  B 3-60 

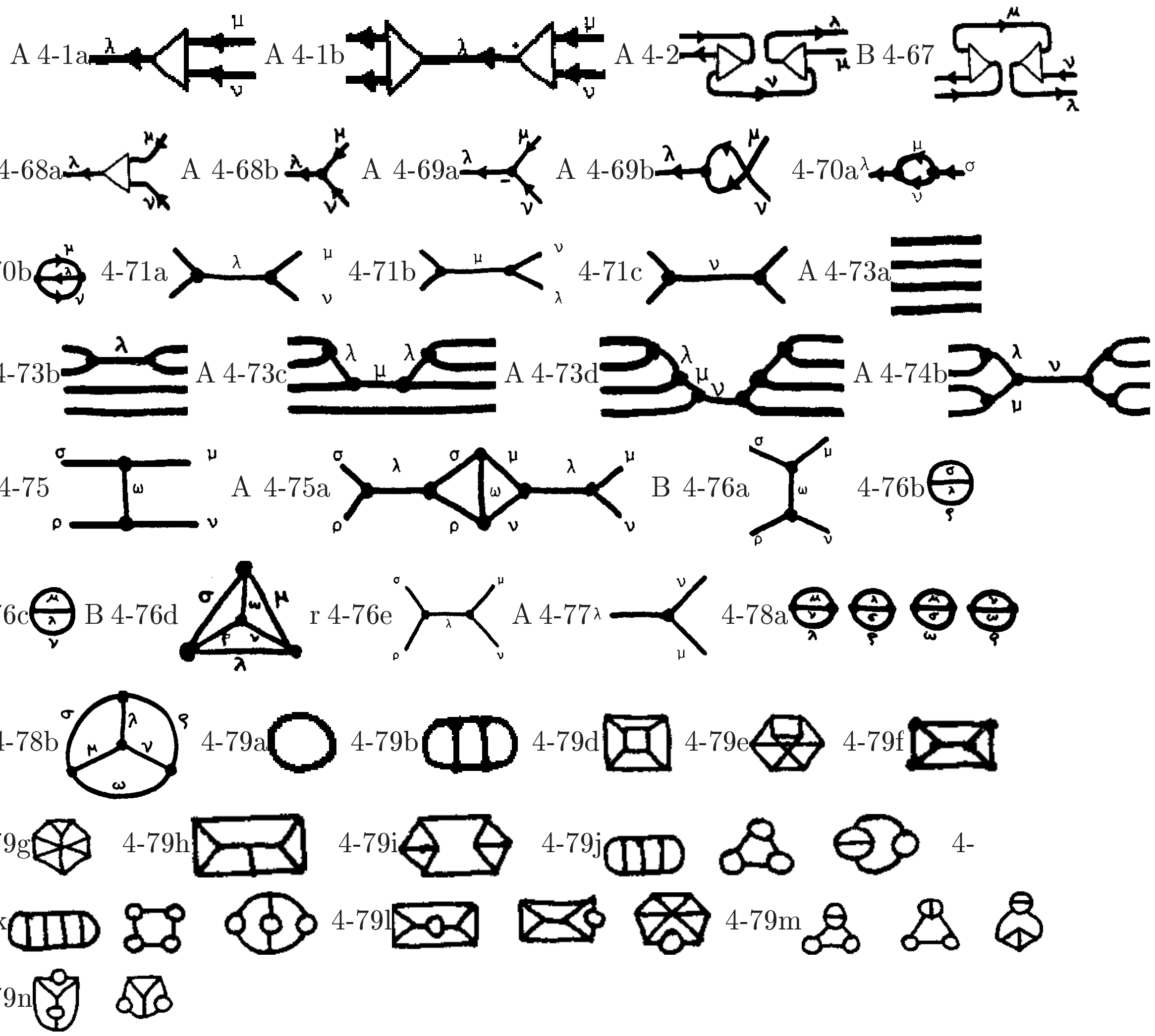
B 3-61 

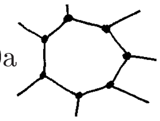
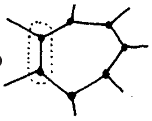
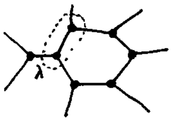
A 3-62 

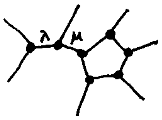
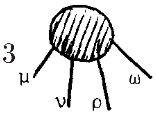
A 3-63 

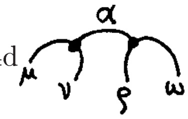
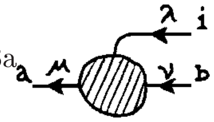
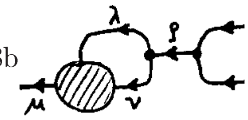
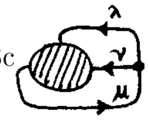
B 3-68σ 

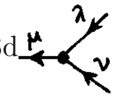
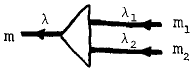
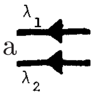

B 3-72
A 3-72a
B 3-72b
A 3-73
A 3-73a
A 3-74
A 3-75
A 3-75a
B 4-79c
B 3-79c exists?
A 3-89
B 3-91
B 3-94
3-95a
B 3-95

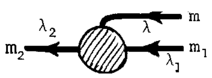
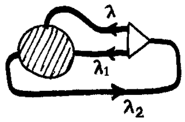

A 4-1a
A 4-1b
A 4-2
B 4-67
A 4-68a
A 4-68b
A 4-69a
A 4-69b
4-70a
4-70b
4-71a
4-71b
4-71c
A 4-73a
A 4-73b
A 4-73c
A 4-73d
A 4-74b
A 4-75
A 4-75a
B 4-76a
4-76b
4-76c
B 4-76d
r 4-76e
A 4-77
4-78a
B 4-78b
4-79a
4-79b
4-79d
4-79e
4-79f
4-79g
4-79h
4-79i
4-79j
4-79k
4-79l
4-79m
4-79n

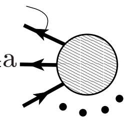
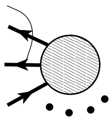
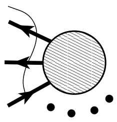
B 4-80a  B 4-80b  4-80c  B 4-80d 

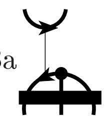
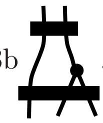
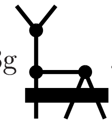
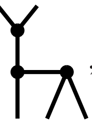
B 4-81a  B 4-83  B 4-84a  B 4-84b 

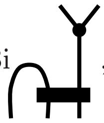
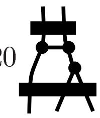
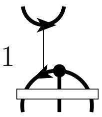
B 4-84c  B 4-84d  B 4-86  4-87a  A 4-87b  B 4-88a  B 4-88b  B 4-88c 

A 4-88d  4-89  4-90  A 4-91a  4-91b 

4-92  B 4-94 

B 2.4a , B 2.4b , B 2.4c ,

B 16.13a , B 16.13b , B 16.13g , B 16.13h ,

B 16.13i , B 16.20 , B 16.20a , B f4.11 ,

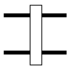
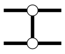
1.5 cm birdtracks

- use command \btrackC{eq.no}:

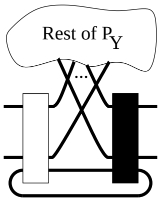
C 16.6a, C 16.6b, C 16.24, C 16.27,

C 16.12b, C 4-76f C 4-76g f4.3b, f4.3c,

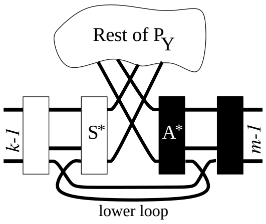
Obsolete birdtracks:

f4.2e  replaced by 16.9a, f4.5  replaced by f4.3d,

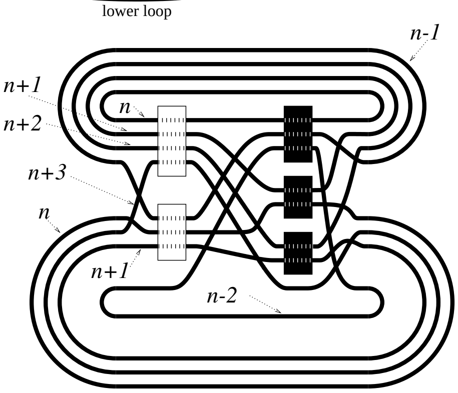
Henri's Specials:

command \btrackYb size in number of half inches. 

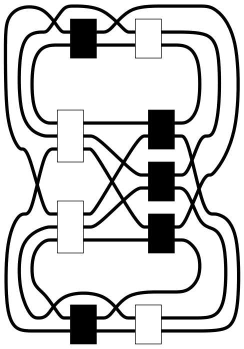
Yb6 hYdim1;

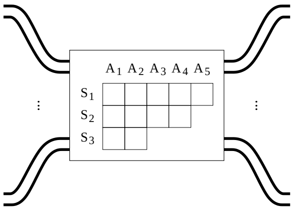


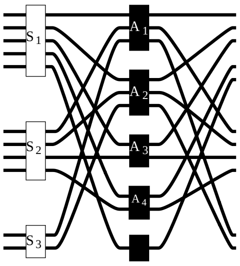
Yb10 hcvan;

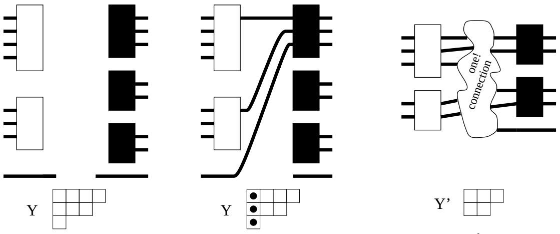


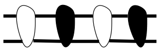
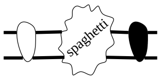
Yb17 hYdimca.PY;


Yb9 h3j.3;



Yb11 hnota.a;


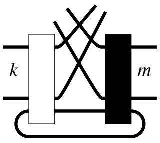
Yb9 hnota.b;


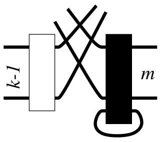
Yb21 hE.3;

Yb6 halpha.1;


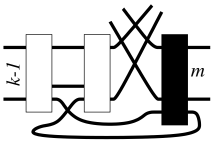
Yb6 halpha.2;

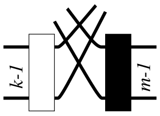
Henri's Birdtracks:

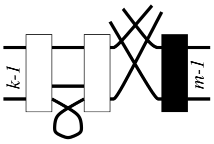
use commands \btrack (b), \btrackB (B), \btrackYb (Yb), or \btrackYH (YH) as indicated.



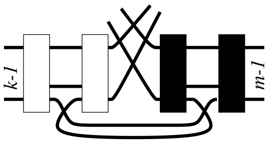
Yb6 hYdim2a;


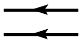
Yb6 hYdim2b;


Yb8 hYdim2c;


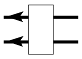
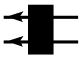
Yb6 hYdim2d;


Yb8 hYdim2e;



Yb10 hYdim2f;

Yb3 h2it.0;

Yb3 h2it.1;

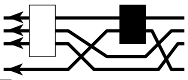
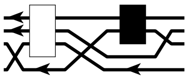
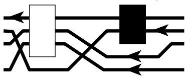
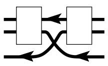
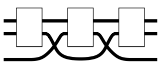
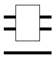
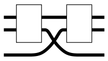
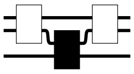
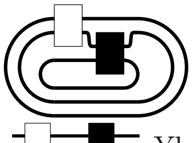

Yb5 h2it.2;

Yb3 h2it.sym;

Yb3 h2it.anti;

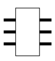
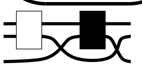
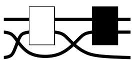
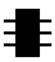
Yb2 hperm.123;

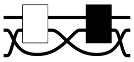
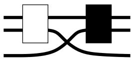
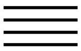
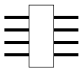
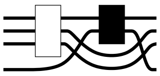
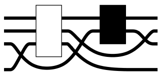
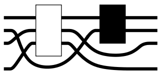
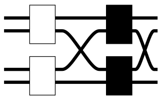
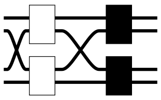
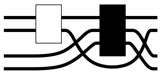
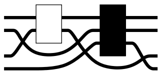
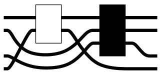
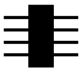
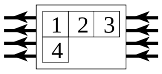
Yb2 hperm.132;

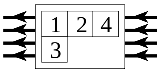
Yb2 hperm.23;

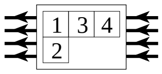
Yb3 h1q;

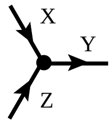
Yb3 h1qbar;

Yb7 hYYP.31a;

Yb7 hYYP.31b;

Yb7 hYYP.31c;

Yb4 h3it.Q;

Yb6 h3it.Q2;

Yb2 h3it.Q2a;

Yb4 h3it.Q2b;

Yb5 h3it.P2;

Yb7 h3it.trP2;

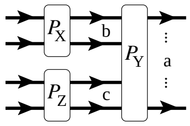
Yb2 h3it.nid;

Yb2 h3it.nP1;

Yb5 h3it.nP2;

Yb5 h3it.nP3;

Yb2

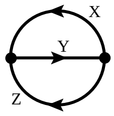
h3it.nP4;  Yb5 h3it.nP2ex;  Yb5 h3it.nP3ex; 
Yb3 h4it.id;  Yb3 h4it.P1;  Yb6 h4it.P2; 
Yb6 h4it.P3;  Yb6 h4it.P4;  Yb6 h4it.P5; 
Yb6 h4it.P6;  Yb6 h4it.P7;  Yb6 h4it.P8; 
Yb6 h4it.P9;  Yb3 h4it.P10; 

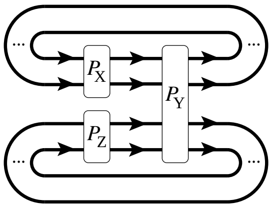
Yb6 h4it.PY2; 

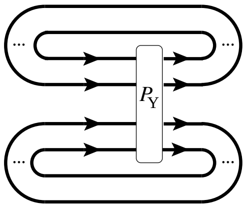
Yb6 h4it.PY3; 

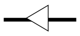
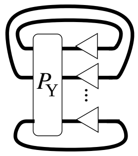
Yb6 h4it.PY4; 

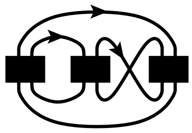
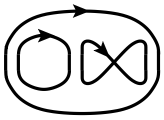
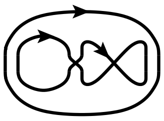
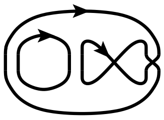
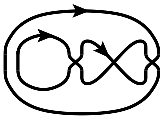
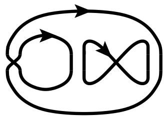
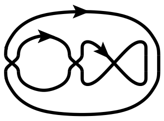
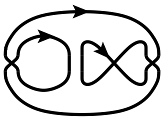
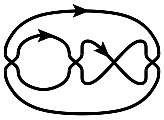
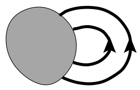
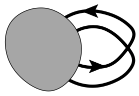
Yb4 h3v.1; 

Yb7 h3v.2; 

Yb4 h3j.1a; 

Yb10 h3j.1b; 

Yb9 hsumrule;  Yb3 hcha.M; 

Yb5 hcha.PY; 
Yb7 hndex1.a;  Yb6 hndex1.b;  Yb6 hndex1.c;
 Yb6 hndex1.d;  Yb6 hndex1.e;  Yb6
hndex1.f;  Yb6 hndex1.g;  Yb6 hndex1.h; 
Yb6 hndex1.i;  Yb5 hndsupf.1a;  Yb5 hndsupf.1b;

Henri's Young Diagrams and Young Tableaux:

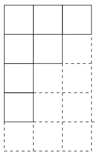
use commands \btrackYt (in text) or \btrackYe (in eqns) as indicated. Here \btrackYe has been used for all figures.

$\boxed{}$ hYYd.1; $\boxed{1}$ h3it.n1a; $\boxed{2}$ h3it.n1b; $\boxed{3}$ h3it.n1c; $\boxed{4}$ h3it.n1d; $\boxtimes$ hYYdanti.1;

$\boxed{}\boxed{}$ hYYd.2s; $\begin{array}{|c|}\hline \\ \hline \\ \hline\end{array}$ hYYd.2a; $\begin{array}{|c|}\hline 1 \\ \hline 2 \\ \hline\end{array}$ hYYd.2a12; $\boxed{1}\boxed{1}$ hYYd.2s11; $\boxed{1}\boxed{2}$ hYYd.2s12; $\boxed{2}\boxed{2}$ hYYd.2s22;

$\ydiagram{1,1,1}$ hYdiag.2; $\begin{ytableau} 1 & 2 & 3 \end{ytableau}$ h3it.n2a; $\begin{ytableau} 1 & 2 \\ 3 \end{ytableau}$ h3it.n2b; $\begin{ytableau} 1 & 3 \\ 2 \end{ytableau}$ h3it.n2c; $\begin{ytableau} 1 \\ 2 \\ 3 \end{ytableau}$ h3it.n2d; $\ydiagram{2,1}$ h3it.3; $\begin{ytableau} 1 & 2 \\ 3 \end{ytableau}$ h3j.2a; $\begin{ytableau} 4 & 5 \\ 6 \end{ytableau}$ h3j.2b;

$\begin{ytableau} 1 & 2 & 3 & 4 \end{ytableau}$ h4it.Y1; $\begin{ytableau} 1 & 2 & 3 \\ 4 \end{ytableau}$ h4it.Y2; $\begin{ytableau} 1 & 2 & 4 \\ 3 \end{ytableau}$ h4it.Y3; $\begin{ytableau} 1 & 3 & 4 \\ 2 \end{ytableau}$ h4it.Y4; $\begin{ytableau} 1 & 2 \\ 3 & 4 \end{ytableau}$ h4it.Y5; $\begin{ytableau} 1 & 3 \\ 2 & 4 \end{ytableau}$ h4it.Y6; $\begin{ytableau} 1 & 2 \\ 3 \\ 4 \end{ytableau}$ h4it.Y7; $\begin{ytableau} 1 & 3 \\ 2 \\ 4 \end{ytableau}$ h4it.Y8; $\begin{ytableau} 1 & 4 \\ 2 \\ 3 \end{ytableau}$ h4it.Y9; $\begin{ytableau} 1 \\ 2 \\ 3 \\ 4 \end{ytableau}$ h4it.Y10;

$\begin{ytableau} 6 & 5 & 3 & 1 \\ 4 & 3 & 1 \\ 2 & 1 \end{ytableau}$ hYYa.Y; $\ydiagram{4,2,1}$ hYdiag1; $\begin{ytableau} n & n+1 & n+2 & n+3 \\ n-1 & n \\ n-2 \end{ytableau}$ hYYdimex.a; $\begin{ytableau} 6 & 4 & 2 & 1 \\ 3 & 1 \\ 1 \end{ytableau}$ hYYdimex.b; $\ydiagram{4,2,1}$ hYdiag.1; $\ydiagram{3,2,1,1}$  $\ydiagram{3,2,2,1}$ hYYd.conj;