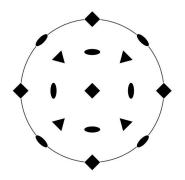
```
clc % clear screen
clear all % clearing workspace
close all % close all the figures
%crystalsyms
```

Defining Crystal Symmetry

```
% cryshex=crystalSymmetry('hexagonal')
% plot(cryshex)
% cs=crystalSymmetry('cubic')
% plot(cs)
cs1=crystalSymmetry('432')
```

```
cs1 = crystalSymmetry
symmetry: 432
elements: 24
a, b, c : 1, 1, 1
```

plot(cs1)



```
% cs2=crystalSymmetry('m-3m')
% plot(cs2)
```

Define a direction

```
uvw=Miller(1,0,0,cs1,'uvw')
 uvw = Miller (432)
   u v w
   100
 hkl=Miller(1,0,0,cs1,'hkl')
 hkl = Miller (432)
   h k 1
   100
 % hkil=Miller(2,-1,-1,0,cryshex,'hkil')
 % uvtw=Miller(2,-1,-1,0,cryshex,'uvtw')
crystal symmetry in directions/planes
 % methods(hkil); % show all the methods of uvw miller class
 uvwsym=uvw.symmetrise
 uvwsym = Miller (432)
  size: 24 x 1
   show Miller
 figure
 %
 plot(uvw.symmetrise)
 uvw=Miller(1,1,0,cs1,'uvw')
 uvw = Miller (432)
   u v w
   1 1 0
```

plot(uvw.symmetrise)

