

Guide to Graphical Features

```
disp('Checking basic Graphic Installation of MatTuGames.');
```

Checking basic Graphic Installation of MatTuGames.

```
disp('The TuGame vector is specified by:');
```

The TuGame vector is specified by:

```
%w=[0,0,0,0,0,1/4,1/2,1/4,3/4,0,1,1,1,1,2];  
w=[0,0,0,0.54839,0,0,15.67188,0,13.54167,11.55263,0,40.75862,36.47619,32.63158,96.29412];  
v=gameToMatlab(w)
```

```
v = 1x15  
      0      0      0      0      0      0      0      0.5484 ...
```

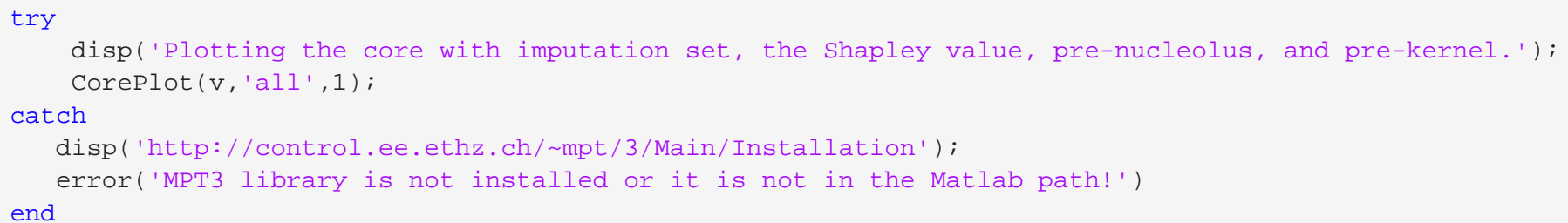
```
disp('The dual Tu-Game vector is specified by:');
```

The dual Tu-Game vector is specified by:

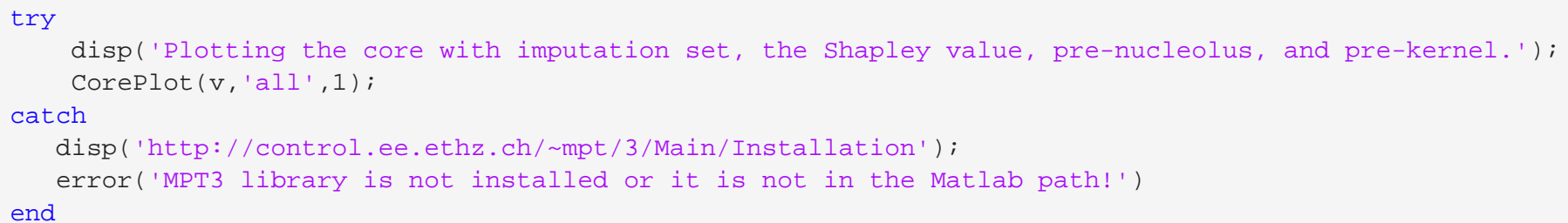
```
dv=dual_game(v)
```

```
dv = 1x15  
 63.6625  59.8179  84.7415  55.5355  82.7525  80.6222  95.7457  96.2941 ...
```

```
try  
    disp('Plotting the core with imputation set, the Shapley value, pre-nucleolus, and pre-kernel.');
```



```
    CorePlot(v,'all',1);  
catch  
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```



```
    error('MPT3 library is not installed or it is not in the Matlab path!')  
end
```

Plotting the core with imputation set, the Shapley value, pre-nucleolus, and pre-kernel.
size = 16 x 5
Number Type = rational
(Initially added rows) = 9 11 13 14 15
(Iter, Row, #Total, #Curr, #Feas)= 6 10 11 9 0

```

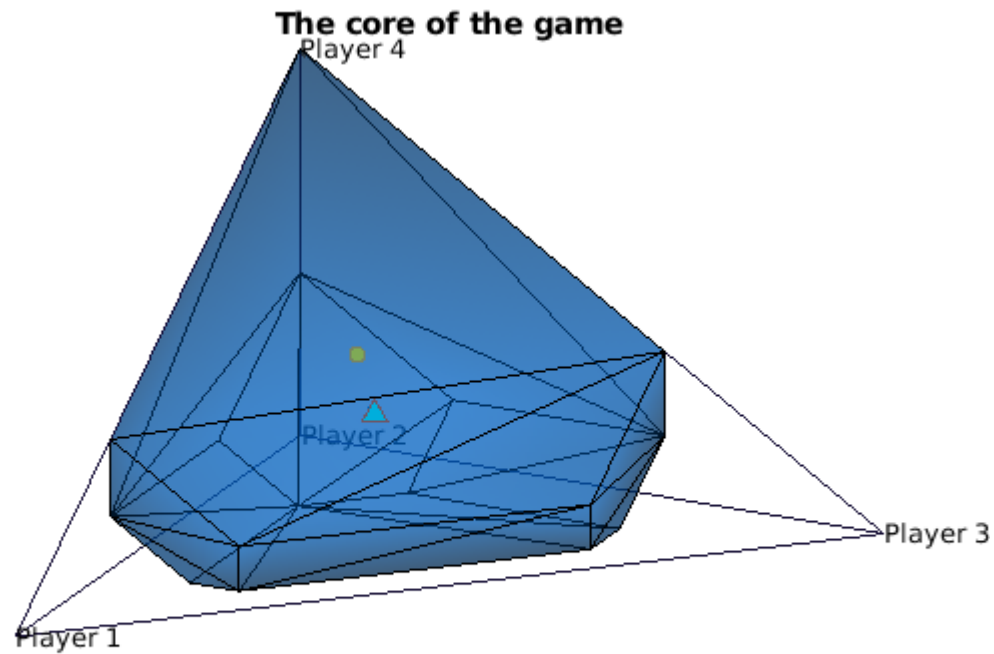
(Iter, Row, #Total, #Curr, #Feas)=      7      12      17      12      0
(Iter, Row, #Total, #Curr, #Feas)=      8       8      27      18      6
(Iter, Row, #Total, #Curr, #Feas)=      9       4      31      15      8
(Iter, Row, #Total, #Curr, #Feas)=     10       2      35      16     11
(Iter, Row, #Total, #Curr, #Feas)=     11       6      35      16     11
(Iter, Row, #Total, #Curr, #Feas)=     12       1      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     13       5      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     14       3      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     15       7      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     16      17      42      20     16
(Iter, Row, #Total, #Curr, #Feas)=     17      16      42      16     16
size = 6 x 5
Number Type = real
(Initially added rows ) = 1 2 3 4 5
(Iter, Row, #Total, #Curr, #Feas)=      6       7       9       8       4
(Iter, Row, #Total, #Curr, #Feas)=      7       6       9       4       4

```

```

pause(5);

```



```
try
    disp('Plotting the core without imputation set, the Shapley value, pre-nucleolus, and pre-kernel.');
```

$$\text{CorePlot}(v, 'all', 0);$$

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

$$\text{error}('MPT3 \text{ library is not installed or it is not in the Matlab path!}')$$

```
end
```

Plotting the core without imputation set, the Shapley value, pre-nucleolus, and pre-kernel.
 size = 16 x 5
 Number Type = rational
 (Initially added rows) = 9 11 13 14 15
 (Iter, Row, #Total, #Curr, #Feas)= 6 10 11 9 0

```

(Iter, Row, #Total, #Curr, #Feas)=      7      12      17      12      0
(Iter, Row, #Total, #Curr, #Feas)=      8       8      27      18      6
(Iter, Row, #Total, #Curr, #Feas)=      9       4      31      15      8
(Iter, Row, #Total, #Curr, #Feas)=     10       2      35      16     11
(Iter, Row, #Total, #Curr, #Feas)=     11       6      35      16     11
(Iter, Row, #Total, #Curr, #Feas)=     12       1      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     13       5      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     14       3      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     15       7      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     16      17      42      20     16
(Iter, Row, #Total, #Curr, #Feas)=     17      16      42      16     16
size = 6 x 5
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(Iter, Row, #Total, #Curr, #Feas)=      6       7       9       8       4
(Iter, Row, #Total, #Curr, #Feas)=      7       6       9       4       4

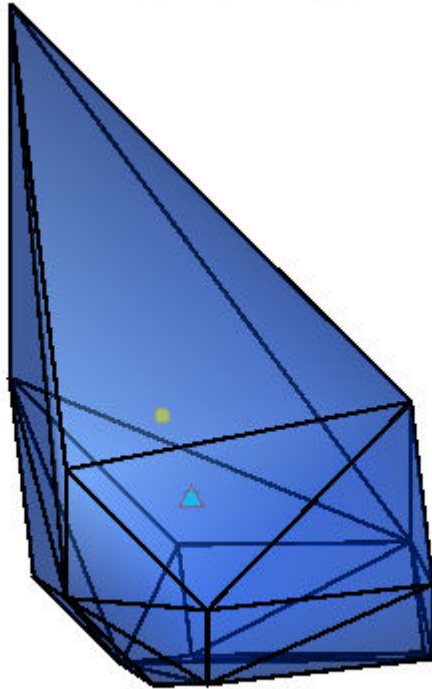
```

```

pause(5);

```

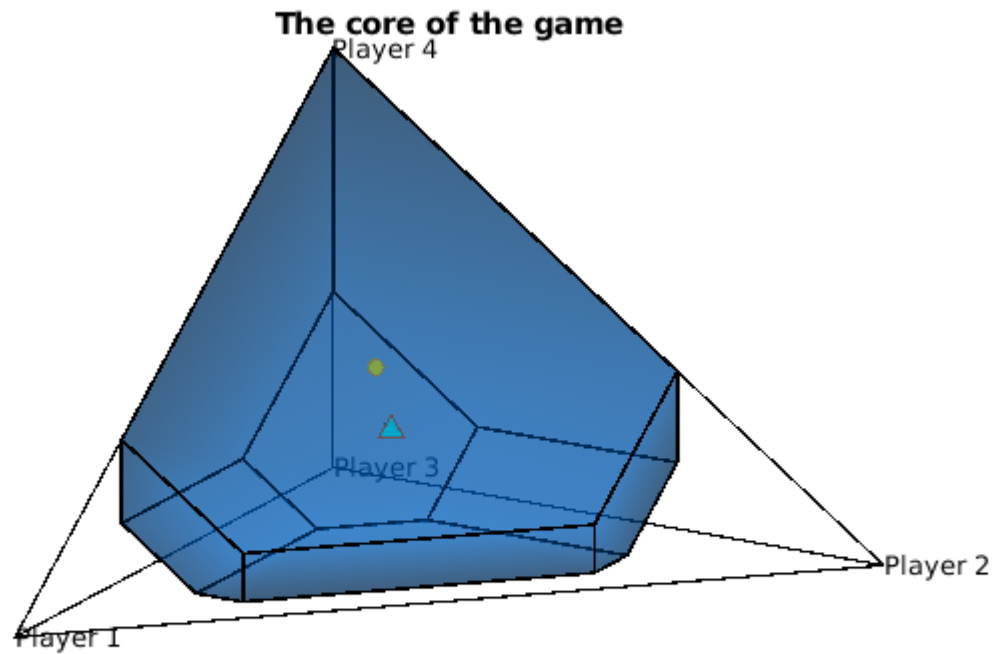
The core of the game



```
try
    disp('Plotting the core with imputation set using Cddmex, the Shapley value, pre-nucleolus, and
pre-kernel. ');
    CddCorePlot(v, 'all', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core with imputation set using Cddmex, the Shapley value, pre-nucleolus, and pre-kernel.

```
pause(5);
```



```
try
    disp('Plotting the core without imputation set using Cddmex, the Shapley value, pre-nucleolus, and
pre-kernel.');
```

CddCorePlot(v,'all',0);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

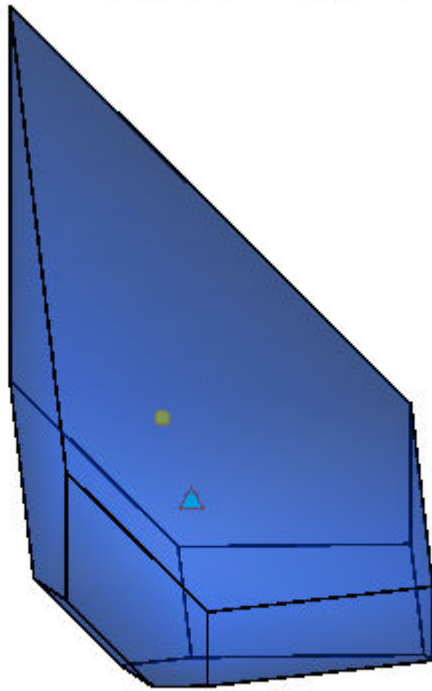
error('MPT3 library is not installed or it is not in the Matlab path!')

```
end
```

Plotting the core without imputation set using Cddmex, the Shapley value, pre-nucleolus, and pre-kernel.

```
pause(5);
```

The core of the game



```
try
    disp('Plotting the core without imputation set, and the Shapley value.');
```

```
    CorePlot(v, 'shap', 0);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

```
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core without imputation set, and the Shapley value.

size = 16 x 5

Number Type = rational

(Initially added rows) = 9 11 13 14 15

(Iter, Row, #Total, #Curr, #Feas)= 6 10 11 9 0

```

(Iter, Row, #Total, #Curr, #Feas)=      7      12      17      12      0
(Iter, Row, #Total, #Curr, #Feas)=      8       8      27      18      6
(Iter, Row, #Total, #Curr, #Feas)=      9       4      31      15      8
(Iter, Row, #Total, #Curr, #Feas)=     10       2      35      16     11
(Iter, Row, #Total, #Curr, #Feas)=     11       6      35      16     11
(Iter, Row, #Total, #Curr, #Feas)=     12       1      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     13       5      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     14       3      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     15       7      41      20     16
(Iter, Row, #Total, #Curr, #Feas)=     16      17      42      20     16
(Iter, Row, #Total, #Curr, #Feas)=     17      16      42      16     16
size = 6 x 5
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(Iter, Row, #Total, #Curr, #Feas)=      6       7       9       8       4
(Iter, Row, #Total, #Curr, #Feas)=      7       6       9       4       4

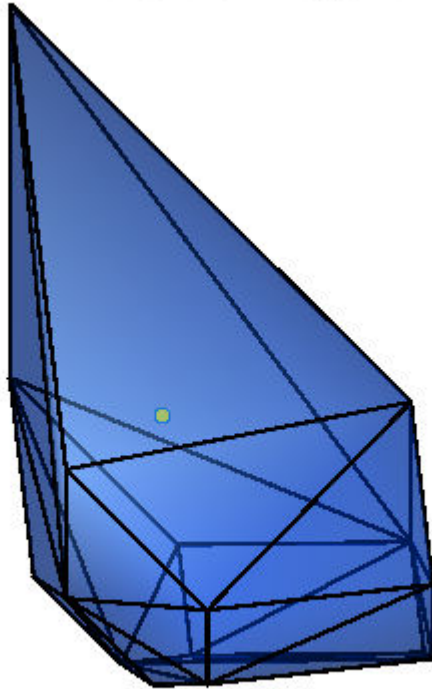
```

```

pause(5);

```


The core of the game



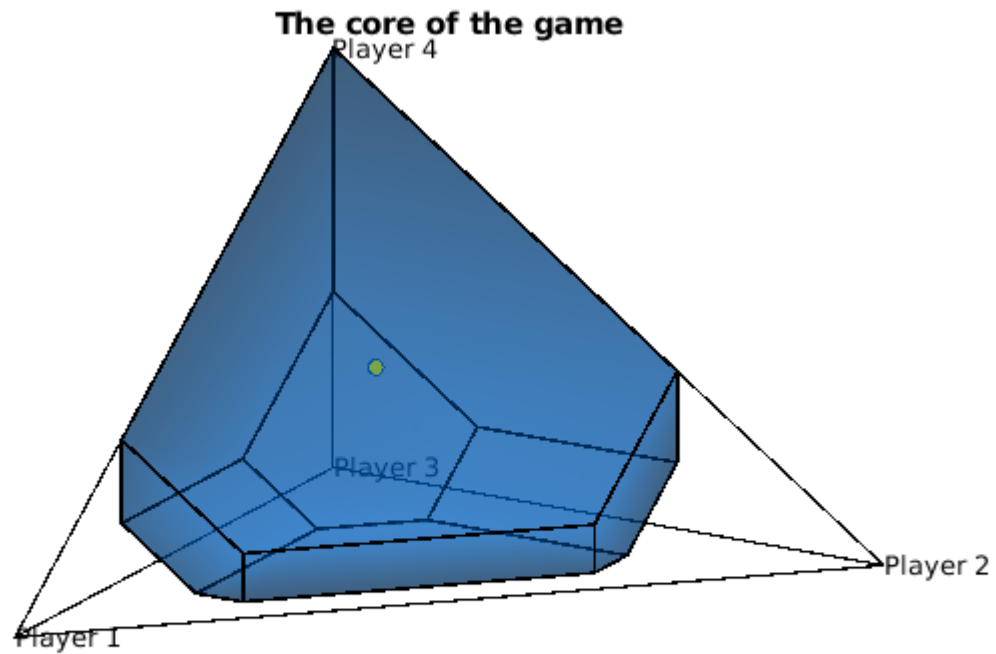
```
try
    disp('Plotting the core with imputation set using Cddmex, and the Shapley value.');
```

```
    CddCorePlot(v,'shap',1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

```
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core with imputation set using Cddmex, and the Shapley value.

```
pause(5);
```



```
try
    disp('Plotting the core with imputation set using Cddmex, and the pre-kernel.');
```

`CddCorePlot(v,'prk',1);`

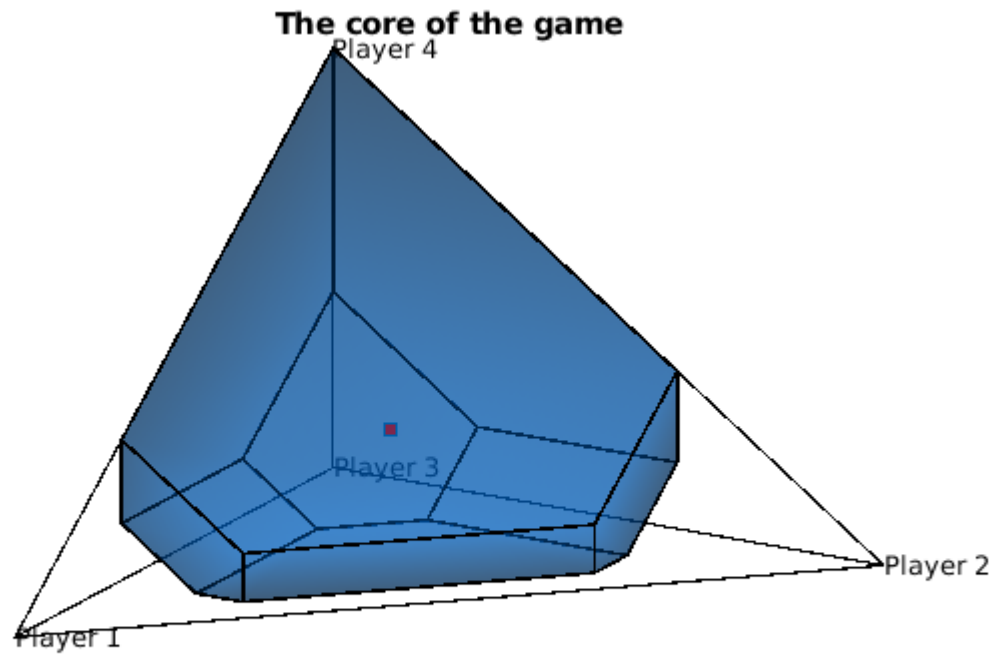
```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

`error('MPT3 library is not installed or it is not in the Matlab path!')`

```
end
```

Plotting the core with imputation set using Cddmex, and the pre-kernel.

```
pause(5);
```



```
try
    disp('Plotting the core with imputation set using Cddmex, and the pre-nucleolus.');
```

CddCorePlot(v, 'prn', 1);

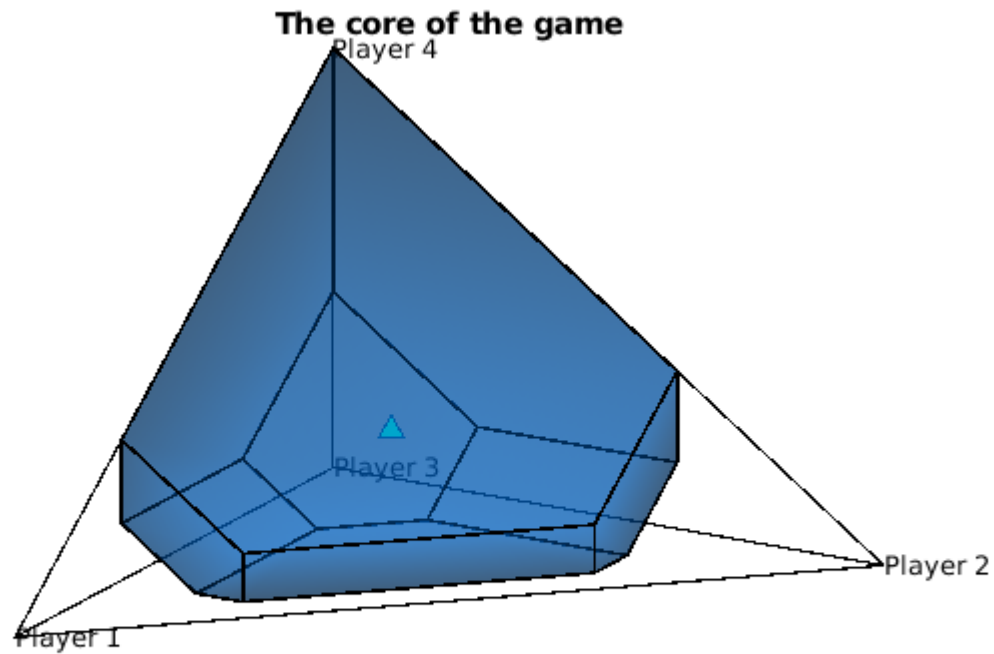
```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

error('MPT3 library is not installed or it is not in the Matlab path!')

```
end
```

Plotting the core with imputation set using Cddmex, and the pre-nucleolus.

```
pause(5);
```



```
try
    disp('Plotting the core with imputation set using Cddmex (Projection Simplex), the Shapley value,
pre-nucleolus, and pre-kernel.');
```

CddCorePlot(v,'all',1);

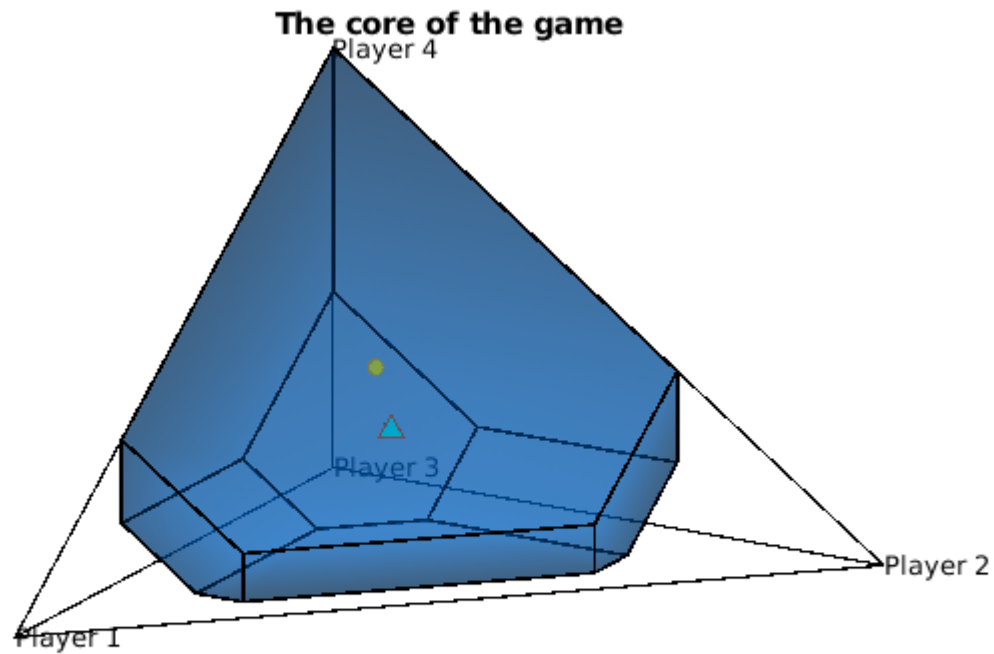
```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

error('MPT3 library is not installed or it is not in the Matlab path!')

```
end
```

Plotting the core with imputation set using Cddmex (Projection Simplex), the Shapley value, pre-nucleolus, and pre-kernel.

```
pause(5);
```



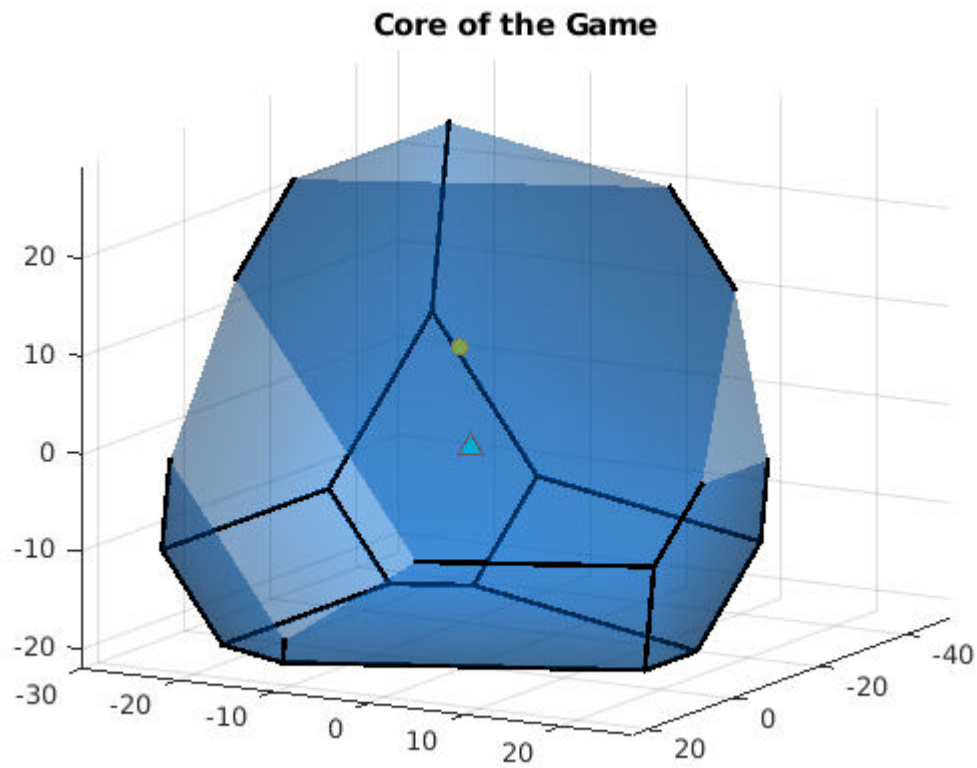
```
try
    disp('Plotting the core without imputation set using Cddmex (Projection Simplex), the Shapley
value, pre-nucleolus, and pre-kernel.');
```

CddCoreSimplexPlot(v,'all',0);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core without imputation set using Cddmex (Projection Simplex), the Shapley value, pre-nucleolus, and pre-kernel.

```
pause(5);
```



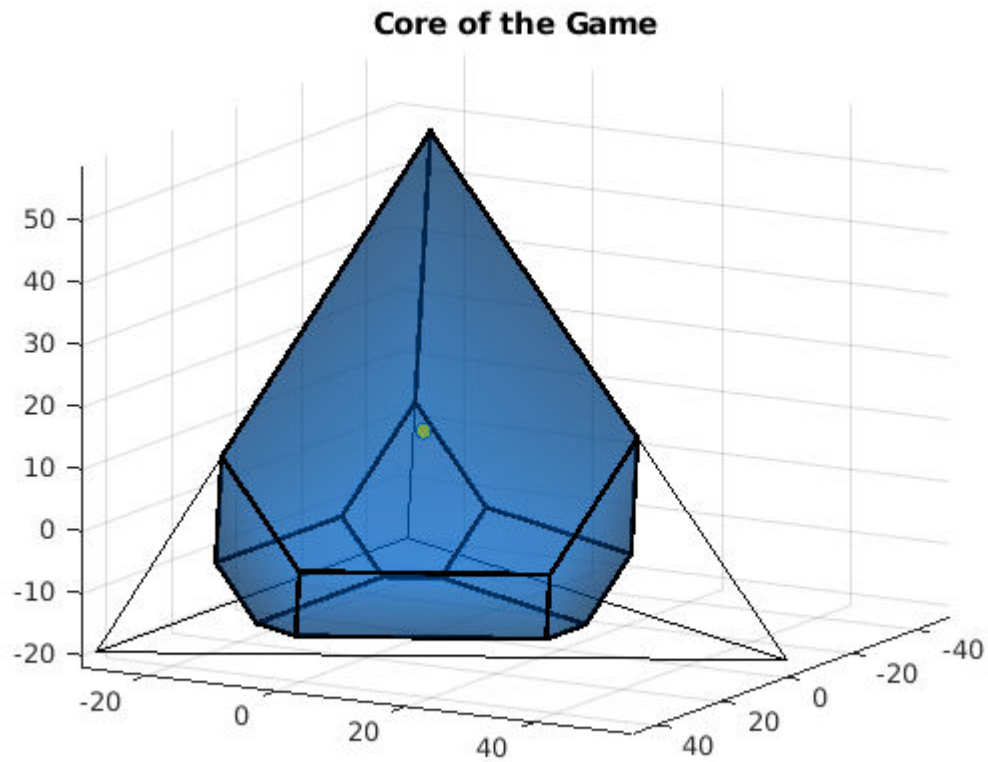
```
try
    disp('Plotting the core with imputation set using Cddmex (Projection Simplex), and the Shapley
value.');
```

CddCoreSimplexPlot(v, 'shap', 1);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core with imputation set using Cddmex (Projection Simplex), and the Shapley value.

```
pause(5);
```



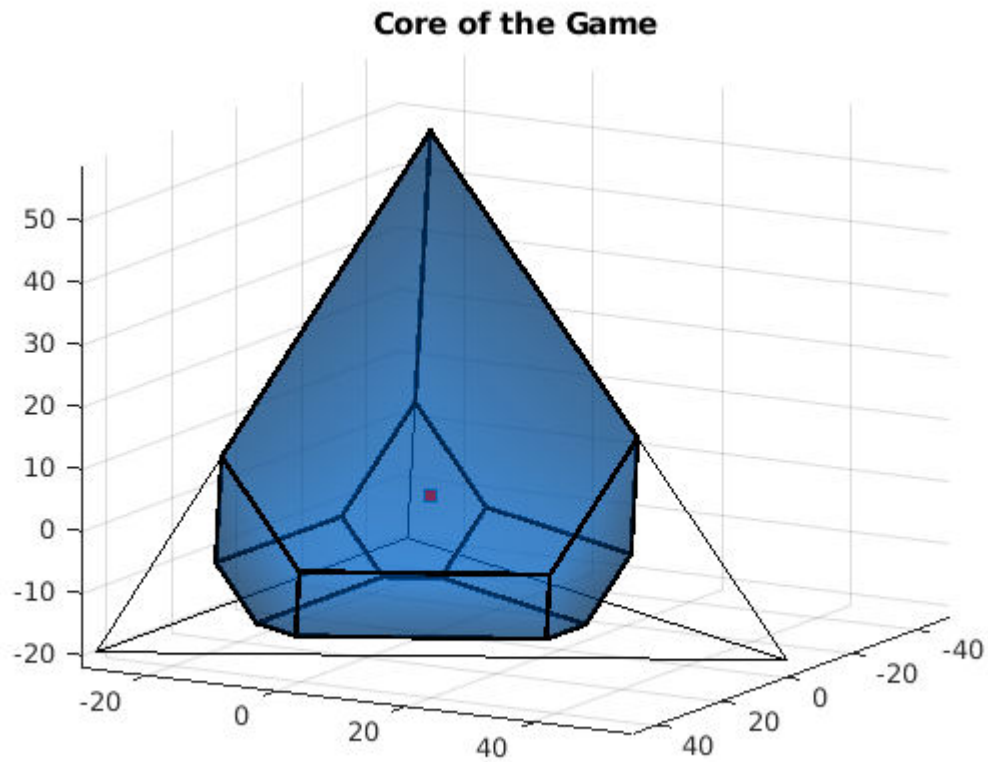
```
try
    disp('Plotting the core with imputation set using Cddmex (Projection Simplex), and the pre-
kernel.');
```

CddCoreSimplexPlot(v,'prk',1);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core with imputation set using Cddmex (Projection Simplex), and the pre-kernel.

```
pause(5);
```



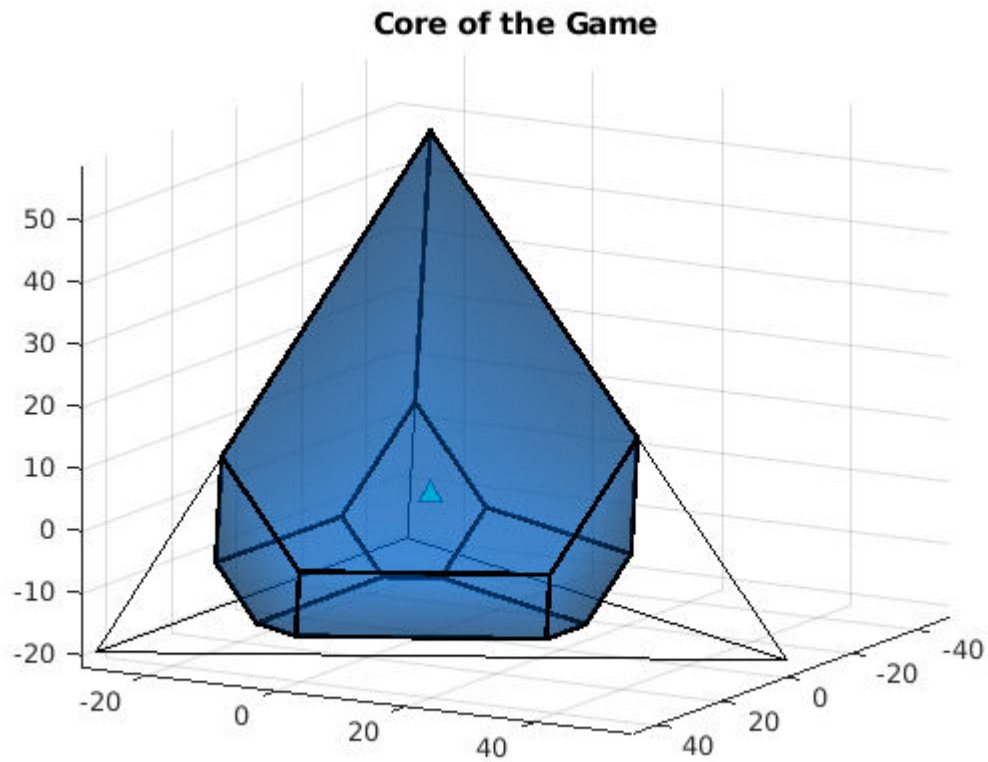
```
try
    disp('Plotting the core with imputation set using Cddmex (Projection Simplex), and the pre-
nucleolus.');
```

CddCoreSimplexPlot(v,'prn',1);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core with imputation set using Cddmex (Projection Simplex), and the pre-nucleolus.

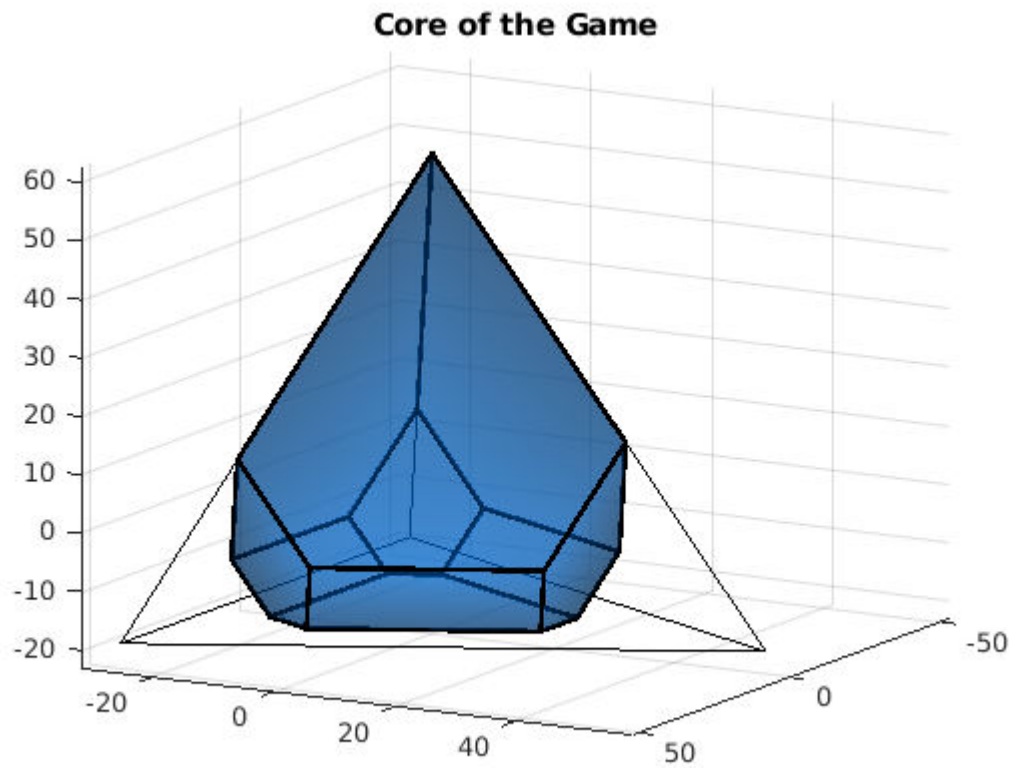
```
pause(5);
```

```
try
    disp('Plotting the core with imputation set using Cddmex (Projection Simplex).');
    CddCoreSimplexPlot(v, 'none', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core with imputation set using Cddmex (Projection Simplex).

```
pause(5);
```



```
try
    disp('Plotting the Weber set with core using Cddmex, the Shapley value, the pre-kernel, and the
pre-nucleolus.');
```

CddWeberSetPlot(v, 'all', 1);

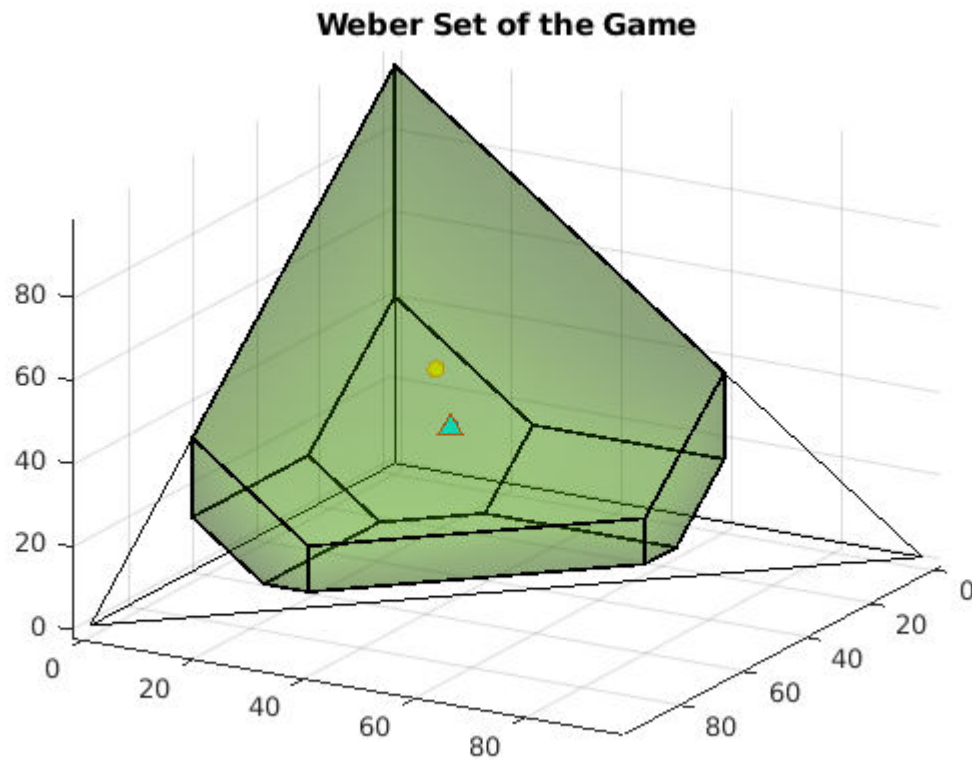
```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

error('MPT3 library is not installed or it is not in the Matlab path!')

```
end
```

Plotting the Weber set with core using Cddmex, the Shapley value, the pre-kernel, and the pre-nucleolus.

```
pause(5);
```



```
try
    disp('Plotting the Weber set without core using Cddmex, the Shapley value, pre-nucleolus, and pre-
kernel.');
```

CddWeberSetPlot(v, 'all', 0);

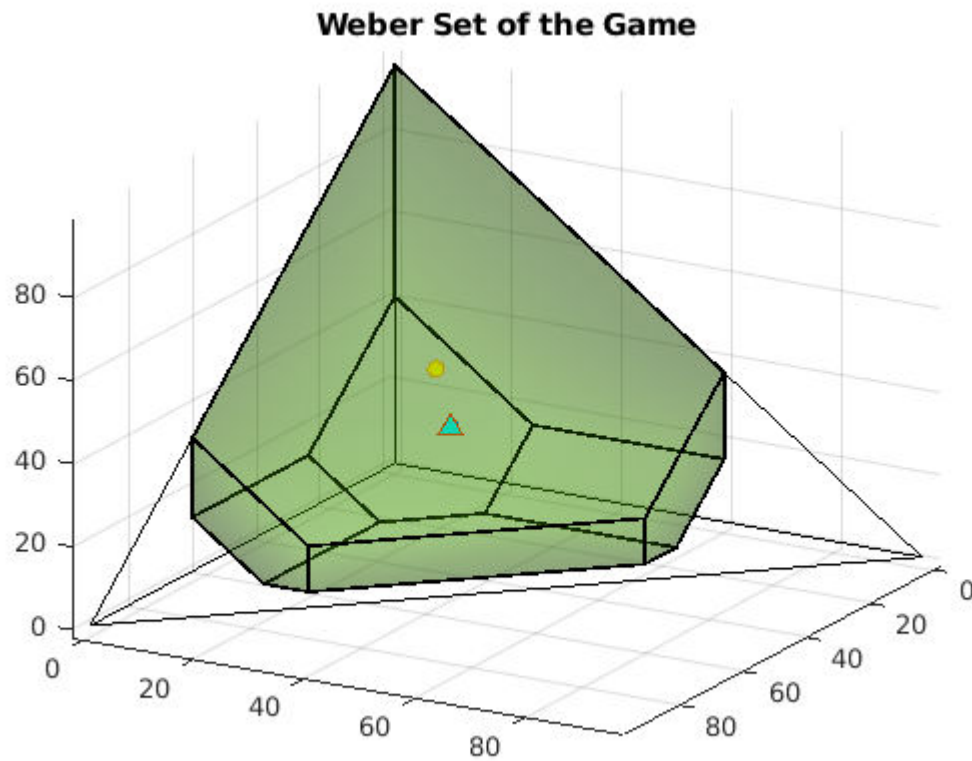
```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

error('MPT3 library is not installed or it is not in the Matlab path!')

```
end
```

Plotting the Weber set without core using Cddmex, the Shapley value, pre-nucleolus, and pre-kernel.

```
pause(5);
```



```
try
    disp('Plotting the Weber set with core using Cddmex, and the Shapley value.');
```

`CddWeberSetPlot(v, 'shap', 1);`

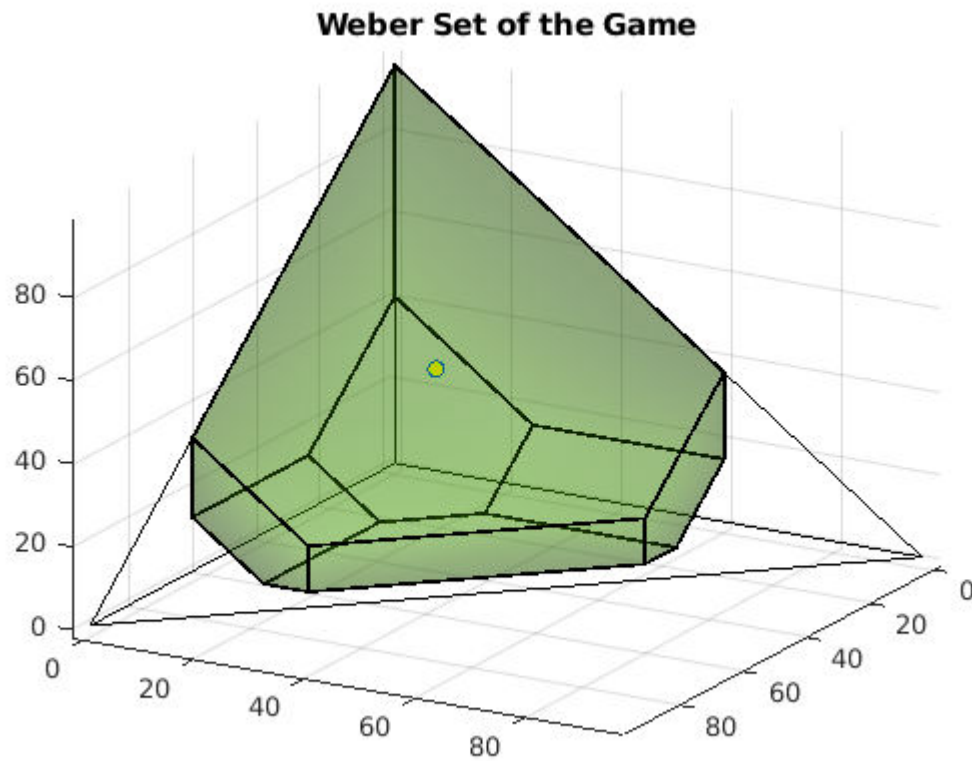
```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

`error('MPT3 library is not installed or it is not in the Matlab path!')`

```
end
```

Plotting the Weber set with core using Cddmex, and the Shapley value.

```
pause(5);
```



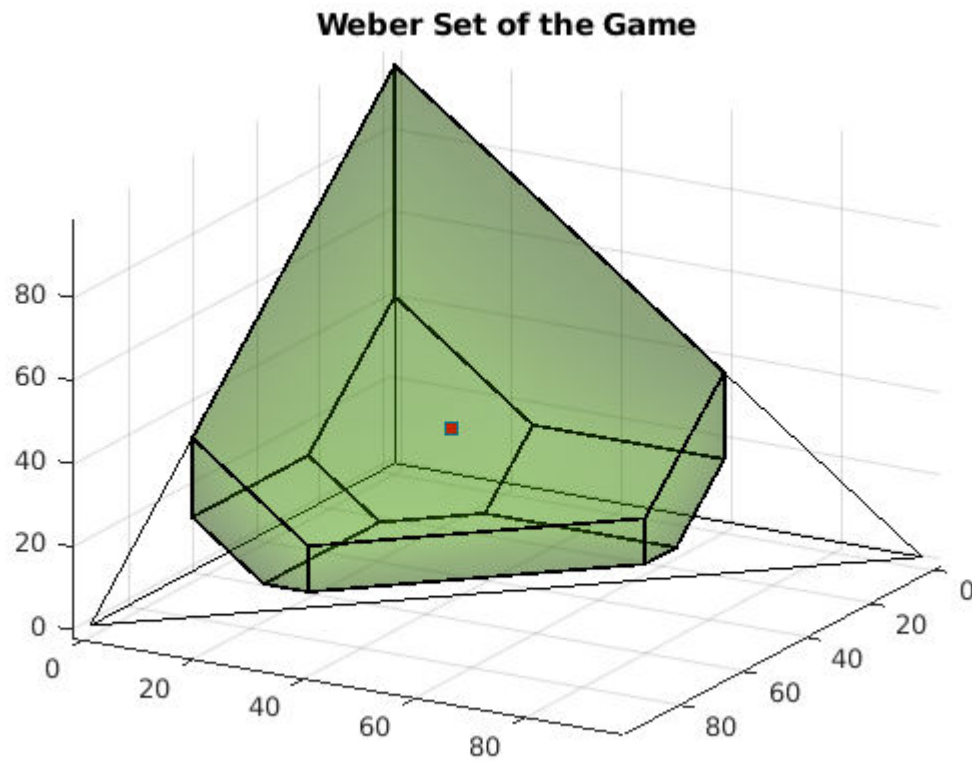
```
try
    disp('Plotting the Weber set with the core using Cddmex, and the pre-kernel.');
```

```
    CddWeberSetPlot(v, 'prk', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

```
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the Weber set with the core using Cddmex, and the pre-kernel.

```
pause(5);
```



```

try
    disp('Plotting the Weber set with the core using Cddmex, and the pre-nucleolus.');
```

```
    CddWeberSetPlot(v, 'prn', 1);
```

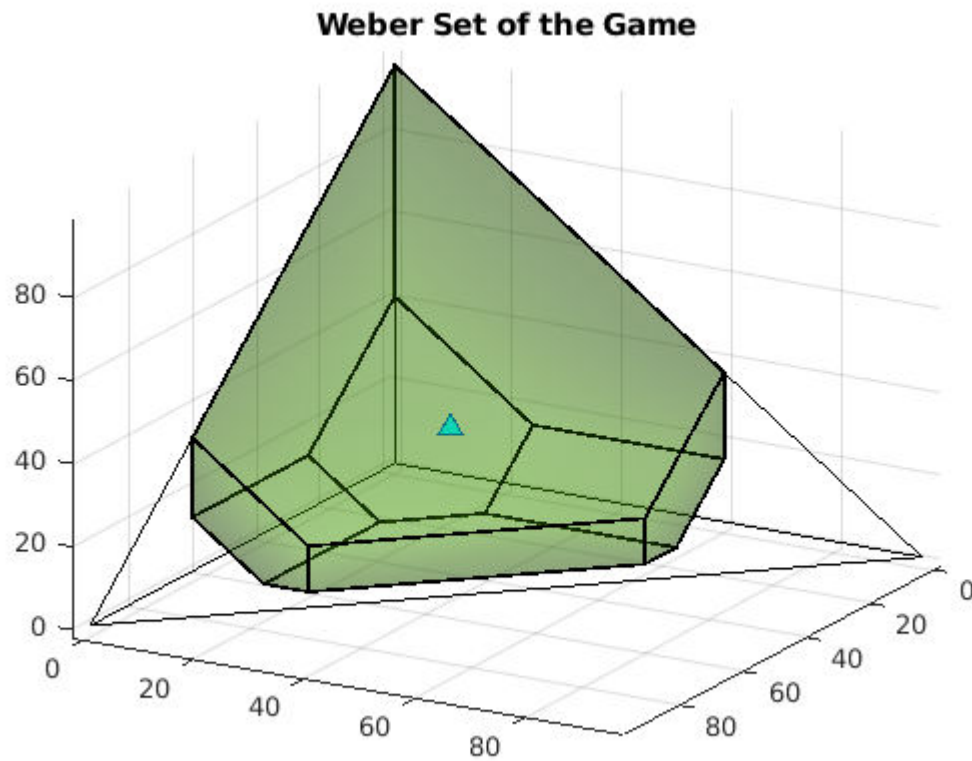
```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

```
    error('MPT3 library is not installed or it is not in the Matlab path!')
```

```
end
```

Plotting the Weber set with the core using Cddmex, and the pre-nucleolus.

```
pause(5);
```



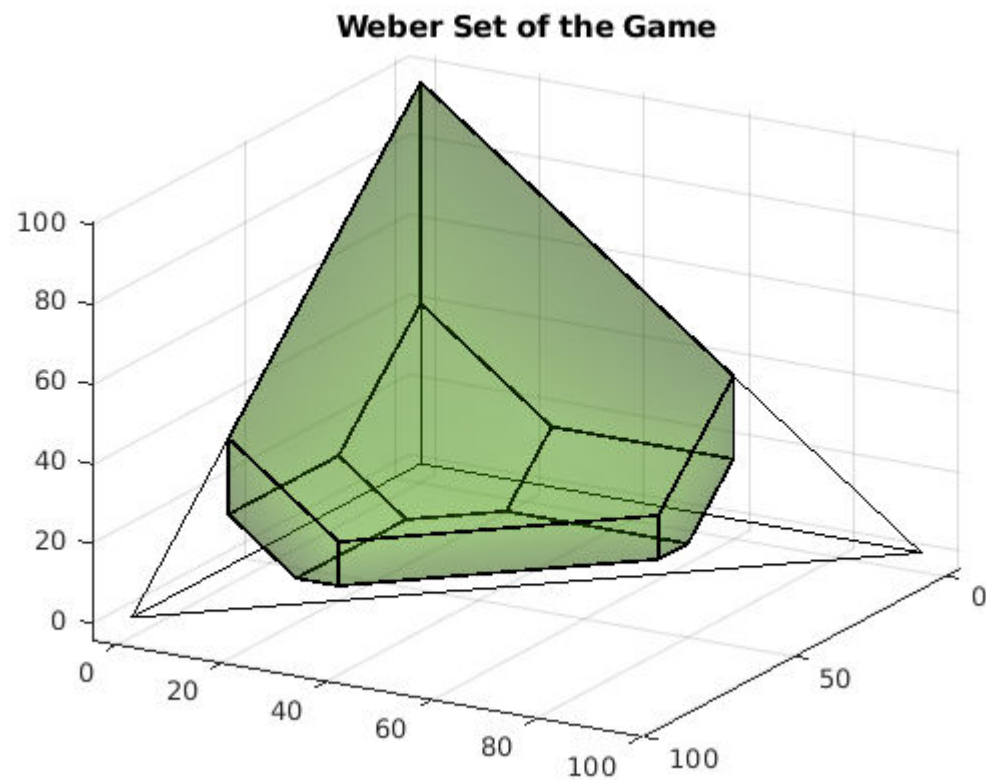
```
try
    disp('Plotting the Weber set with the core using Cddmex.');
```

CddWeberSetPlot(v, 'none', 1);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the Weber set with the core using Cddmex.

```
pause(5);
```



```

try
    disp('Plotting the Weber set with core using Cddmex (Projection Simplex), the Shapley value, the
pre-kernel, and the pre-nucleolus.');
```

CddWeberSetSimplexPlot(v, 'all', 1);

```

catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

error('MPT3 library is not installed or it is not in the Matlab path!')

```

end

```

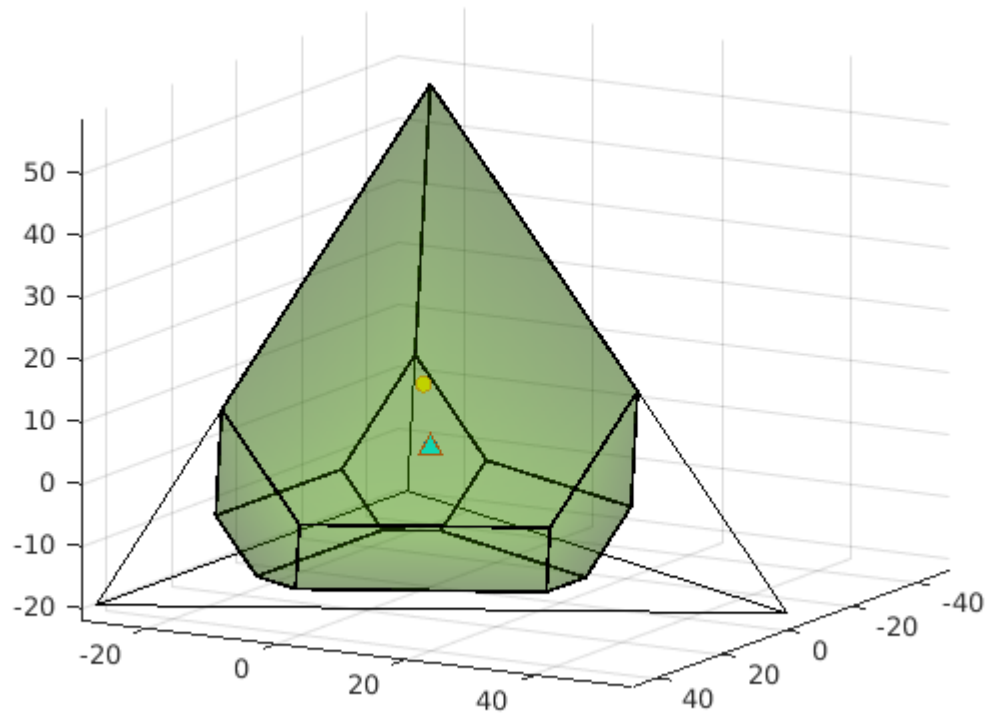
Plotting the Weber set with core using Cddmex (Projection Simplex), the Shapley value, the pre-kernel, and the pre-nucleolus.

```

pause(5);

```


Weber Set of the Game



```
try
    disp('Plotting the Weber set without core using Cddmex (Projection Simplex), the Shapley value,
pre-nucleolus, and pre-kernel.');
```

CddWeberSetSimplexPlot(v, 'all', 0);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

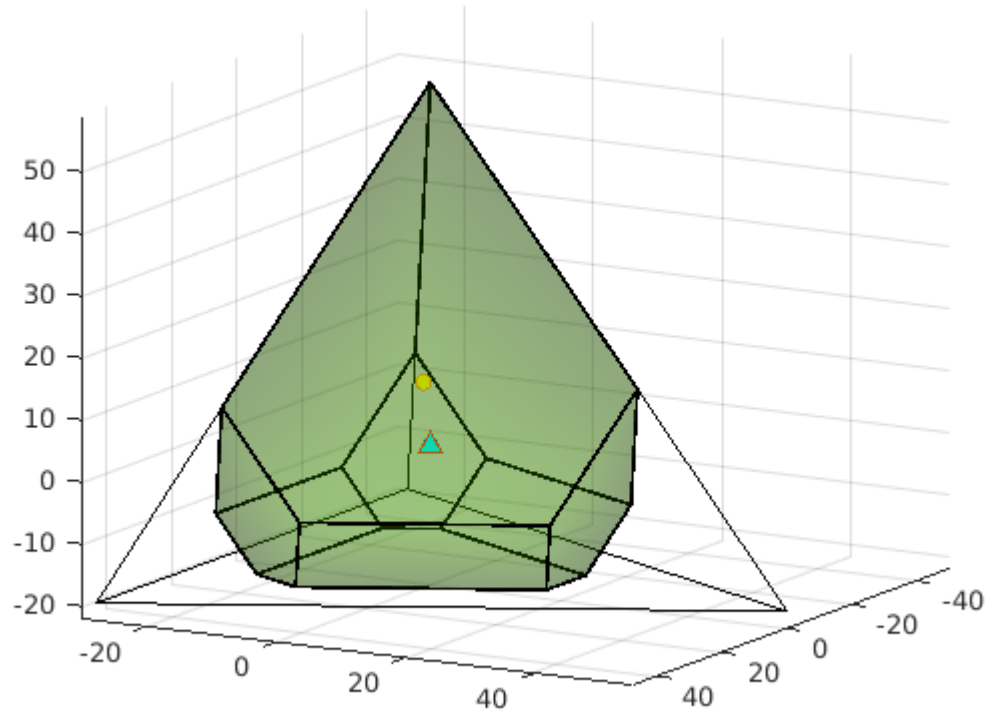
error('MPT3 library is not installed or it is not in the Matlab path!')

```
end
```

Plotting the Weber set without core using Cddmex (Projection Simplex), the Shapley value, pre-nucleolus, and pre-kernel.

```
pause(5);
```

Weber Set of the Game



```
try
    disp('Plotting the Weber set with core using Cddmex (Projection Simplex), and the Shapley value.');
```

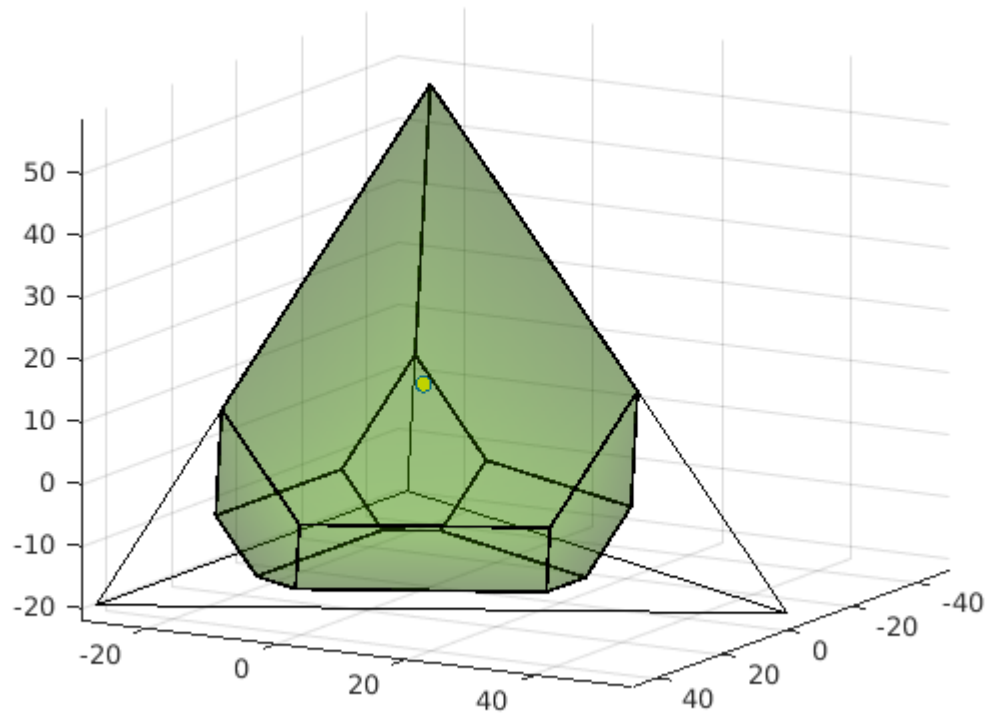
```
    CddWeberSetSimplexPlot(v, 'shap', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

```
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the Weber set with core using Cddmex (Projection Simplex), and the Shapley value.

```
pause(5);
```

Weber Set of the Game



```
try
    disp('Plotting the Weber set with the core using Cddmex (Projection Simplex), and the pre-kernel.');
```

CddWeberSetSimplexPlot(v, 'prk', 1);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

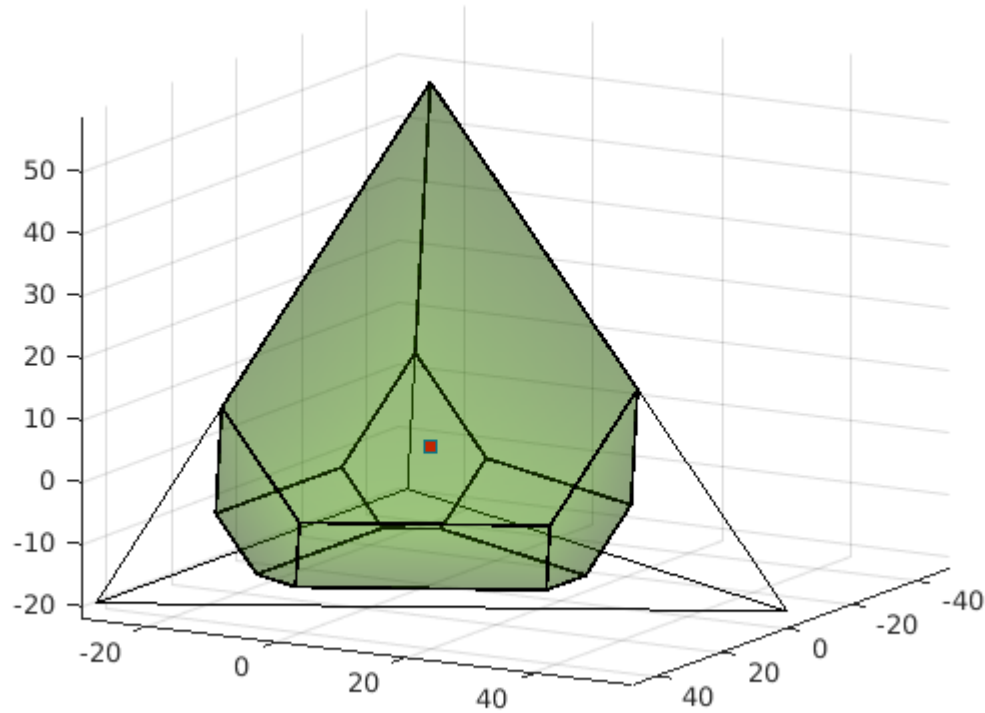
error('MPT3 library is not installed or it is not in the Matlab path!')

```
end
```

Plotting the Weber set with the core using Cddmex (Projection Simplex), and the pre-kernel.

```
pause(5);
```

Weber Set of the Game



```
try
    disp('Plotting the Weber set with the core using Cddmex (Projection Simplex), and the pre-
nucleolus.');
```

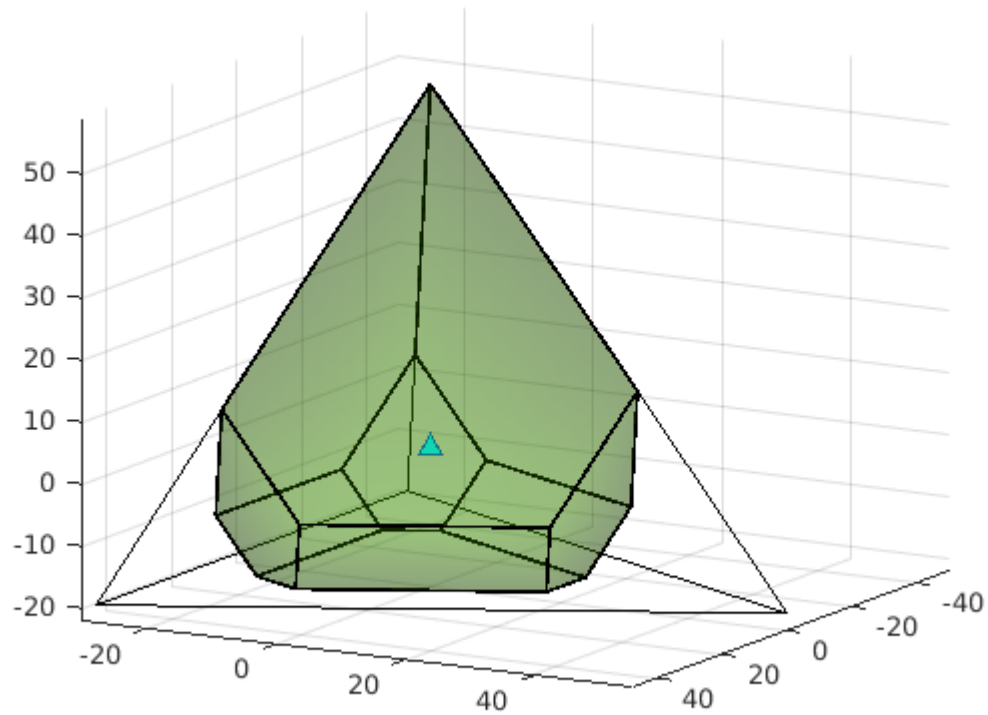
`CddWeberSetSimplexPlot(v,'prn',1);`

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the Weber set with the core using Cddmex (Projection Simplex), and the pre-nucleolus.

```
pause(5);
```

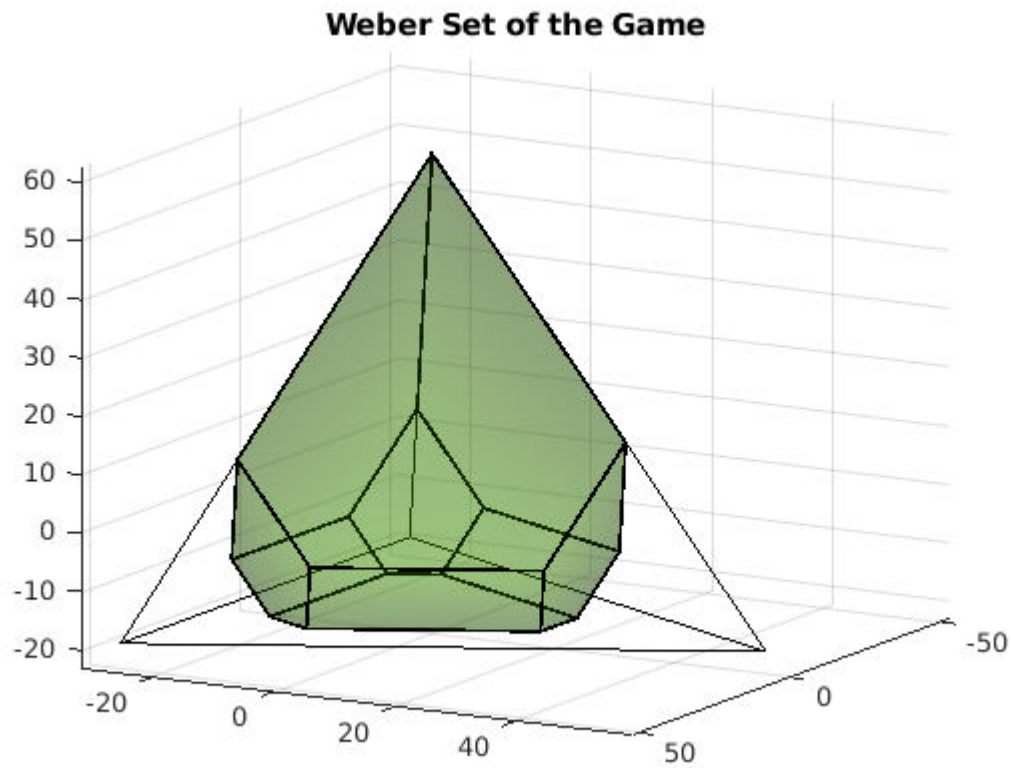
Weber Set of the Game



```
try
    disp('Plotting the Weber set with the core using Cddmex (Projection Simplex).');
    CddWeberSetSimplexPlot(v, 'none', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the Weber set with the core using Cddmex (Projection Simplex).

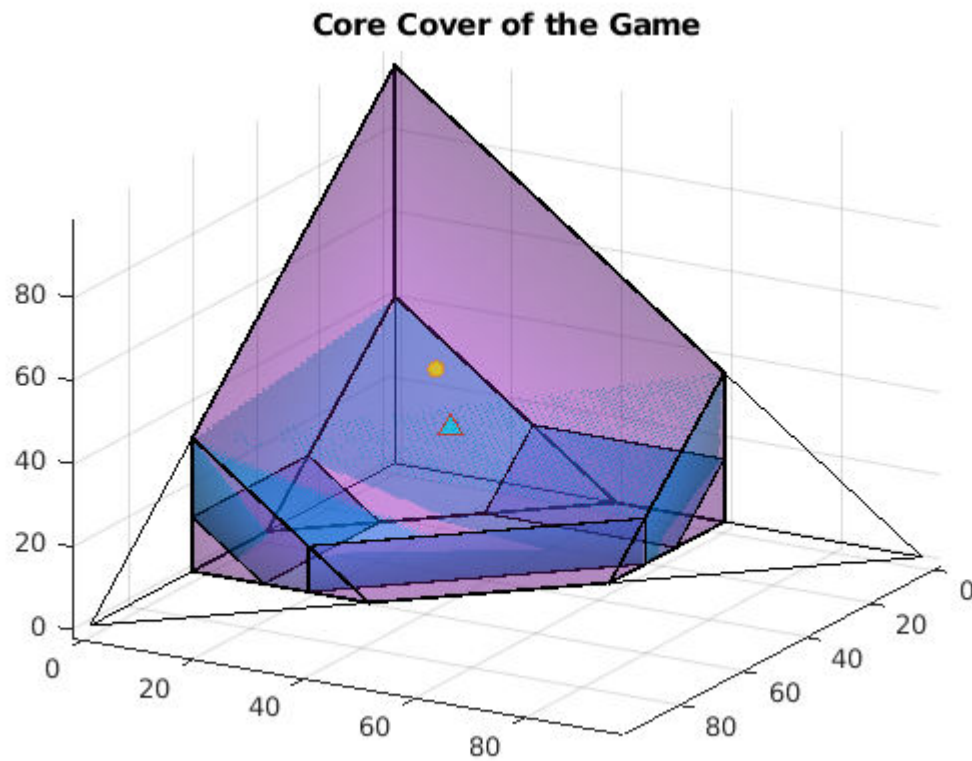
```
pause(5);
```



```
try
    disp('Plotting the core cover with core using Cddmex, the Shapley value, the pre-kernel, and the
pre-nucleolus. ');
    CddCoreCoverPlot(v, 'all', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core cover with core using Cddmex, the Shapley value, the pre-kernel, and the pre-nucleolus.

```
pause(5);
```



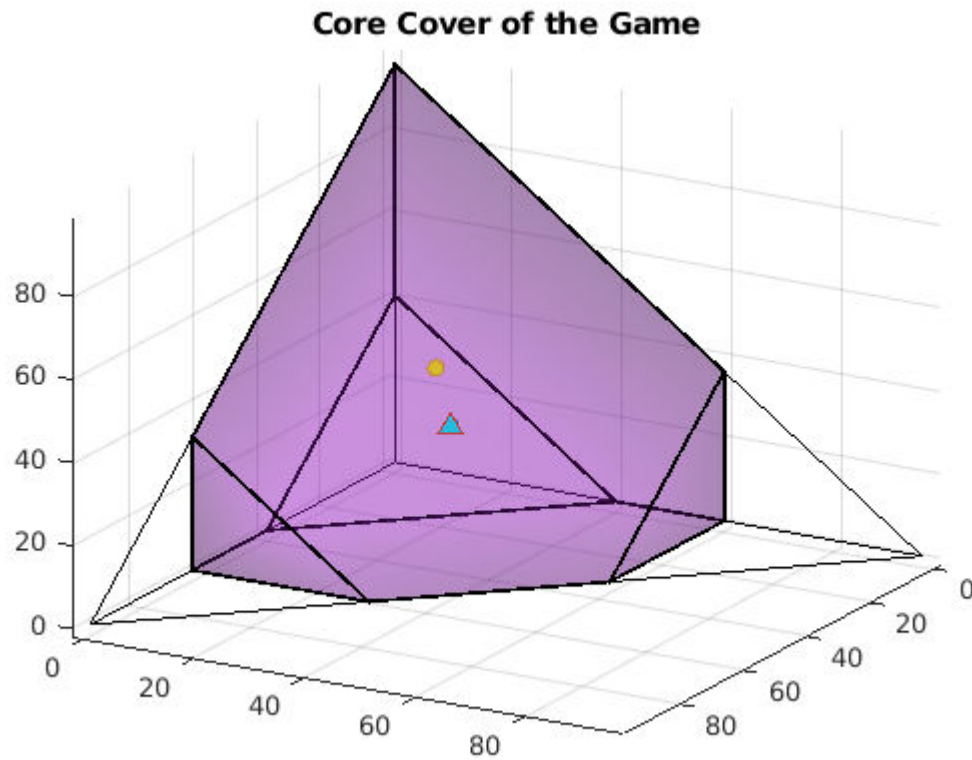
```
try
    disp('Plotting the core cover without core using Cddmex, the Shapley value, pre-nucleolus, and
pre-kernel.');
```

CddCoreCoverPlot(v,'all',0);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core cover without core using Cddmex, the Shapley value, pre-nucleolus, and pre-kernel.

```
pause(5);
```



```
try
    disp('Plotting the core cover with core using Cddmex, and the Shapley value.');
```

CddCoreCoverPlot(v, 'shap', 1);

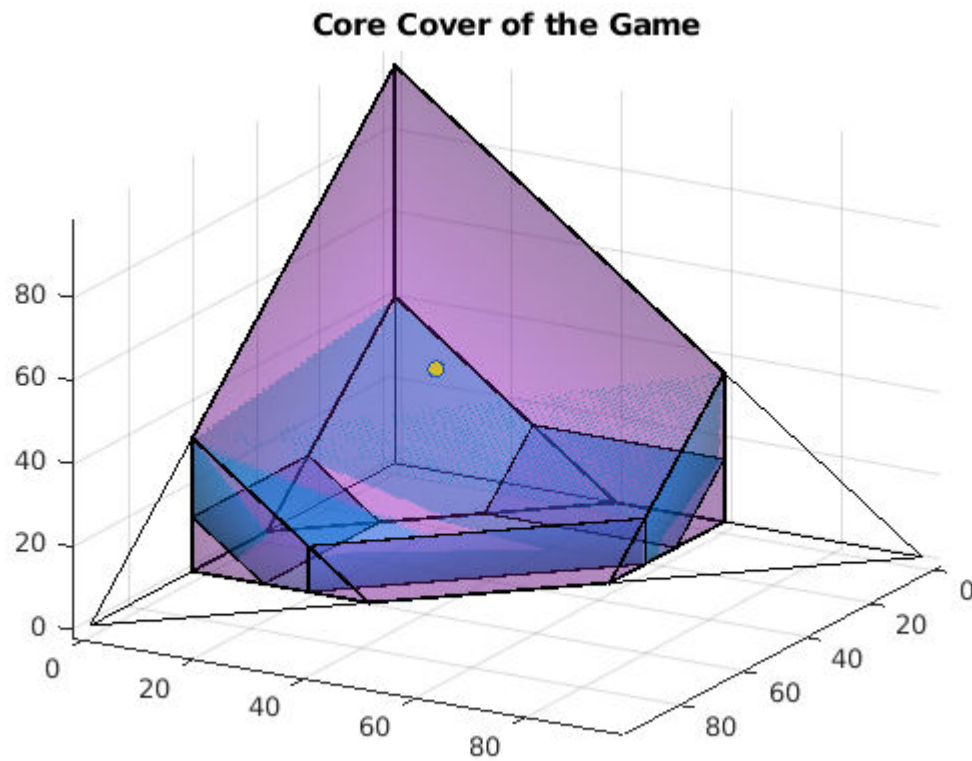
```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

error('MPT3 library is not installed or it is not in the Matlab path!')

```
end
```

Plotting the core cover with core using Cddmex, and the Shapley value.

```
pause(5);
```

```
try
    disp('Plotting the core cover with the core using Cddmex, and the pre-kernel.');
```

`CddCoreCoverPlot(v, 'prk', 1);`

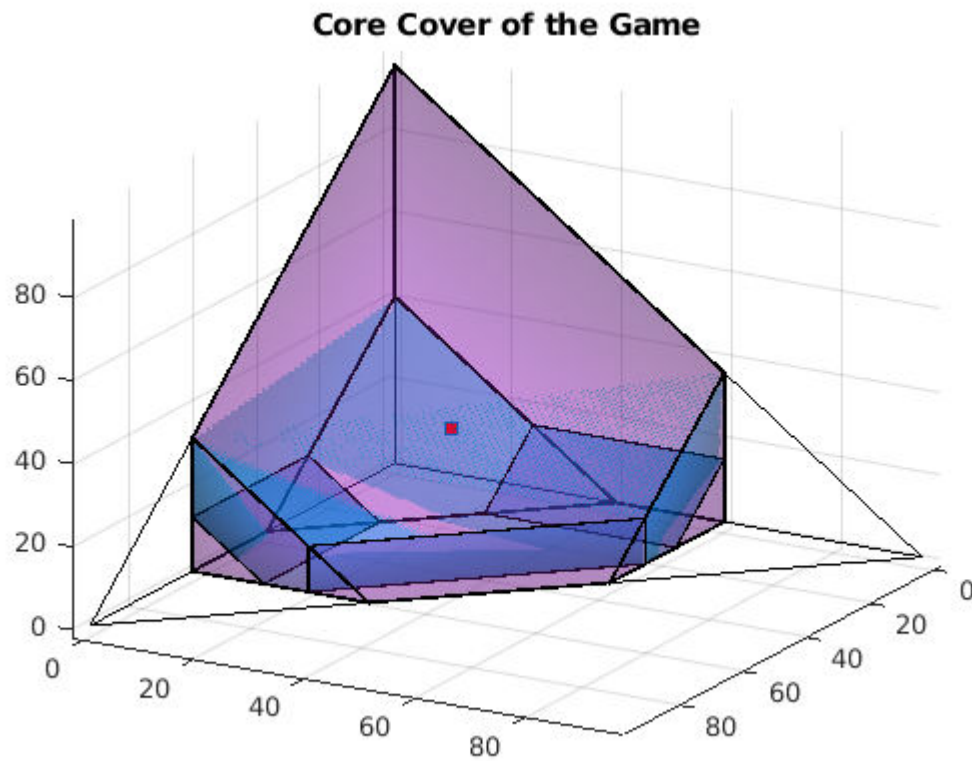
```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

`error('MPT3 library is not installed or it is not in the Matlab path!')`

```
end
```

Plotting the core cover with the core using Cddmex, and the pre-kernel.

```
pause(5);
```



```
try
    disp('Plotting the core cover with the core using Cddmex, and the pre-nucleolus.');
```

`CddCoreCoverPlot(v, 'prn', 1);`

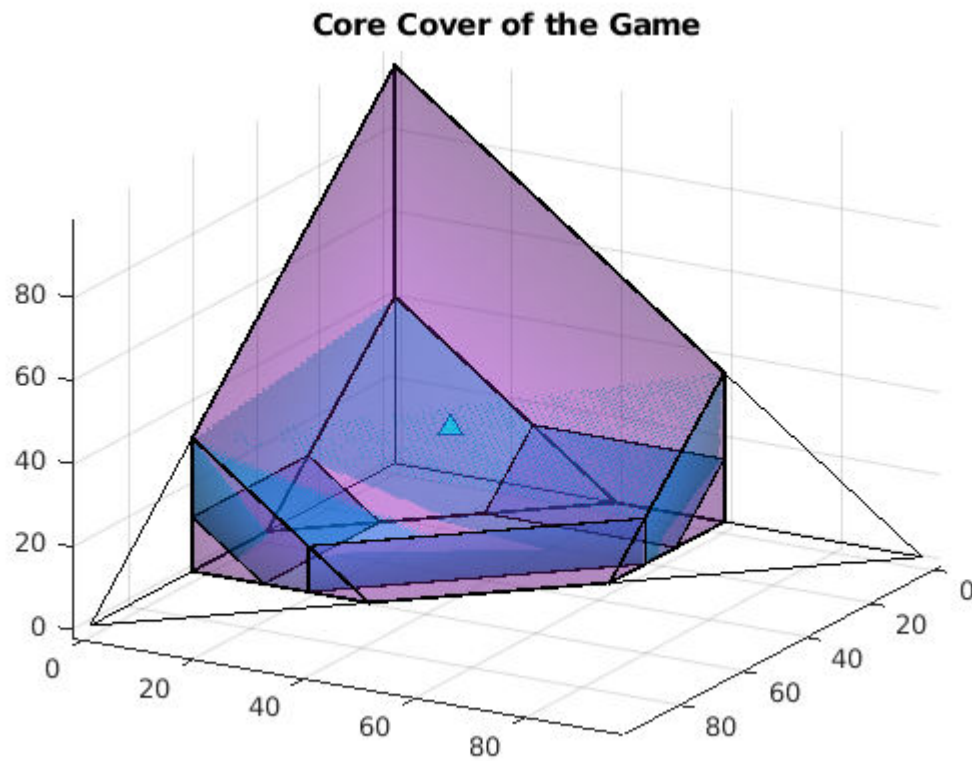
```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

`error('MPT3 library is not installed or it is not in the Matlab path!')`

```
end
```

Plotting the core cover with the core using Cddmex, and the pre-nucleolus.

```
pause(5);
```



```
try
    disp('Plotting the core cover with the core using Cddmex.');
```

CddCoreCoverPlot(v, 'none', 1);

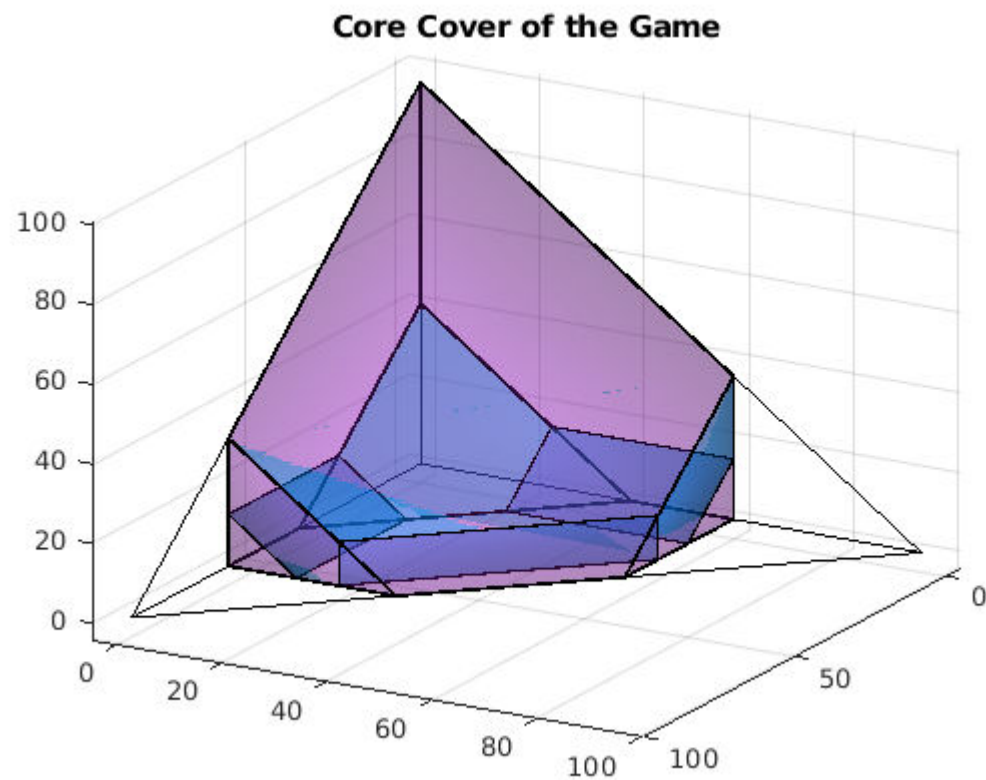
```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

error('MPT3 library is not installed or it is not in the Matlab path!')

```
end
```

Plotting the core cover with the core using Cddmex.

```
pause(5);
```



```

try
    disp('Plotting the core cover with core using Cddmex (Projection Simplex), the Shapley value, the
pre-kernel, and the pre-nucleolus.');
```

CddCoreCoverSimplexPlot(v,'all',1);

```

catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

error('MPT3 library is not installed or it is not in the Matlab path!')

```

end

```

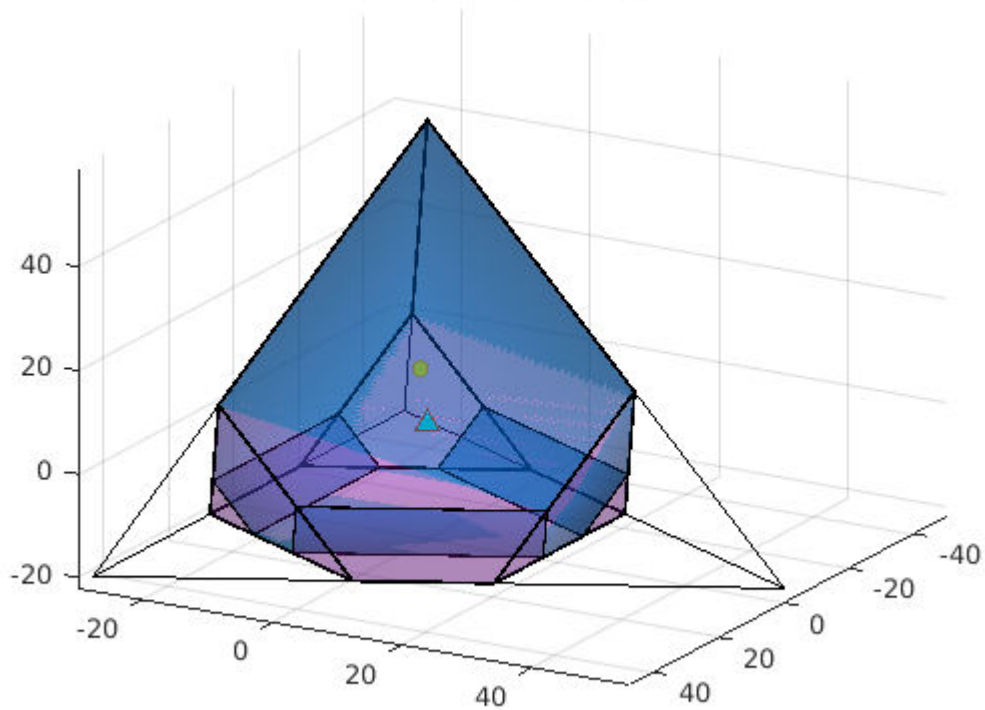
Plotting the core cover with core using Cddmex (Projection Simplex), the Shapley value, the pre-kernel, and the pre-nucleolus.

```

pause(5);

```

Core Cover of the Game



```
try
    disp('Plotting the core cover without core using Cddmex (Projection Simplex), the Shapley value,
pre-nucleolus, and pre-kernel.');
```

`CddCoreCoverSimplexPlot(v, 'all', 0);`

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

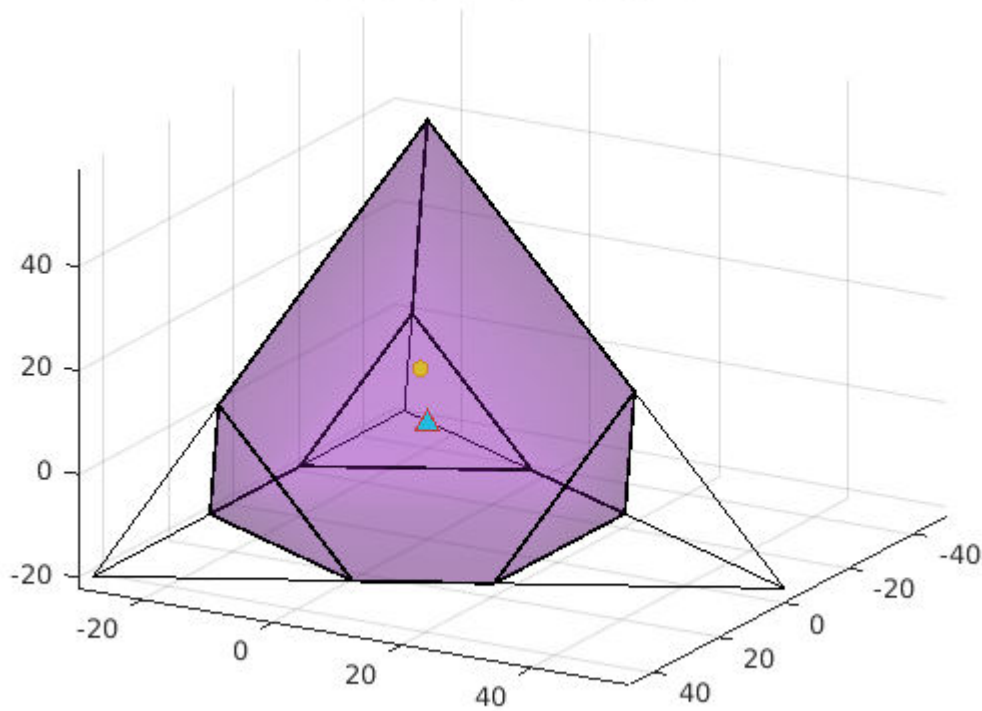
`error('MPT3 library is not installed or it is not in the Matlab path!')`

```
end
```

Plotting the core cover without core using Cddmex (Projection Simplex), the Shapley value, pre-nucleolus, and pre-kernel.

```
pause(5);
```

Core Cover of the Game



```
try
    disp('Plotting the core cover with core using Cddmex (Projection Simplex), and the Shapley value.');
```

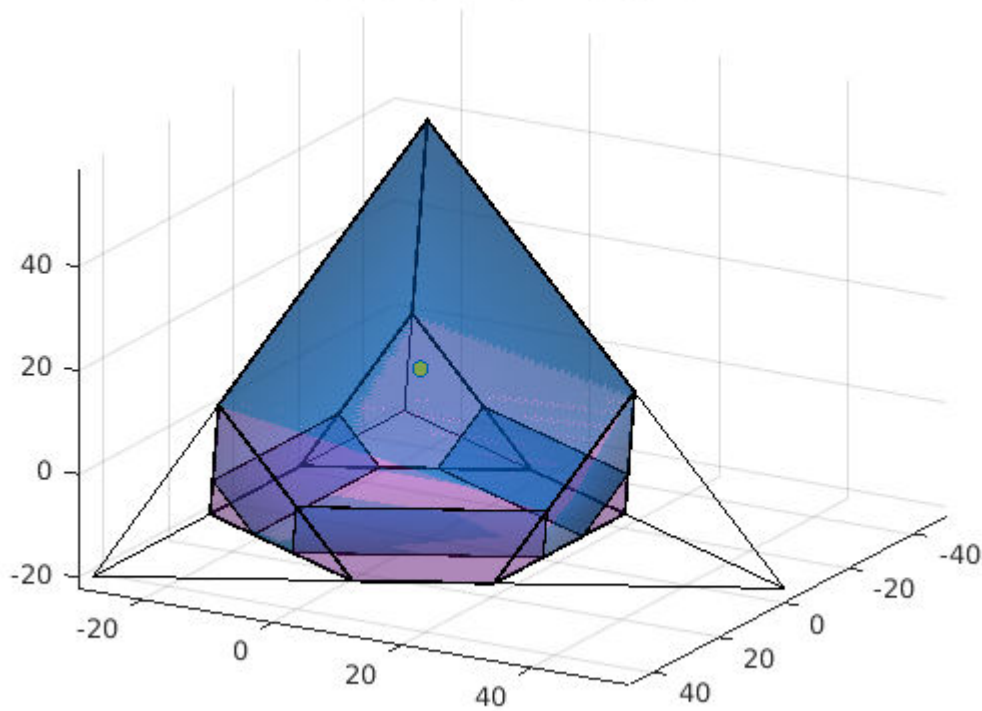
CddCoreCoverSimplexPlot(v, 'shap', 1);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core cover with core using Cddmex (Projection Simplex), and the Shapley value.

```
pause(5);
```

Core Cover of the Game



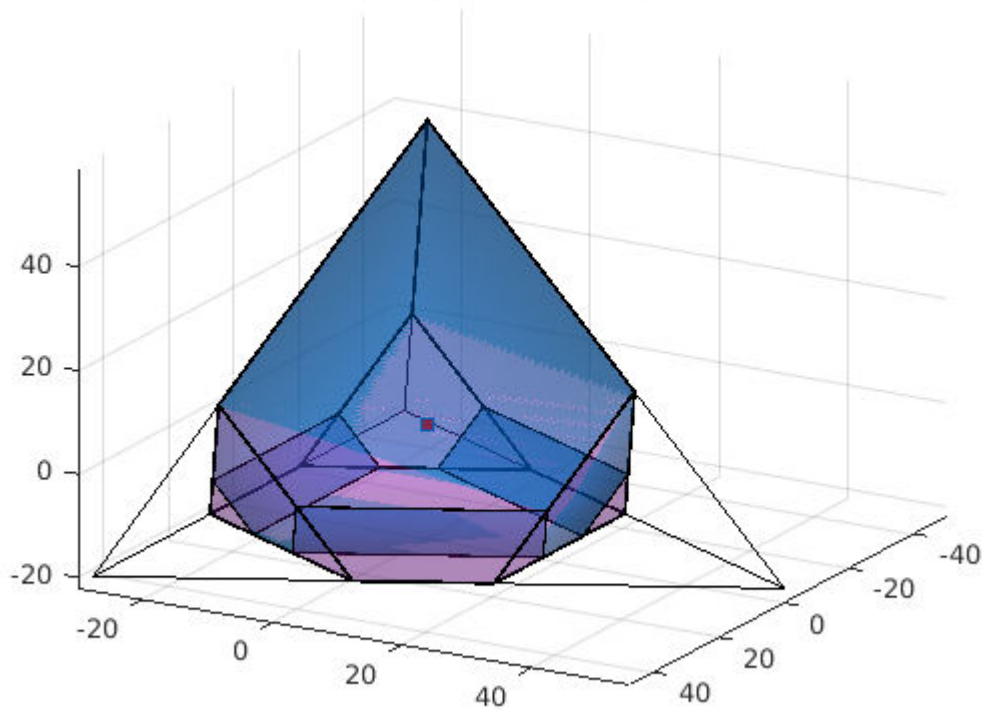
```
try
    disp('Plotting the core cover with the core using Cddmex (Projection Simplex), and the pre-
kernel.');
```

```
    CddCoreCoverSimplexPlot(v, 'prk', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core cover with the core using Cddmex (Projection Simplex), and the pre-kernel.

```
pause(5);
```

Core Cover of the Game



```
try
    disp('Plotting the core cover with the core using Cddmex (Projection Simplex), and the pre-
nucleolus.');
```

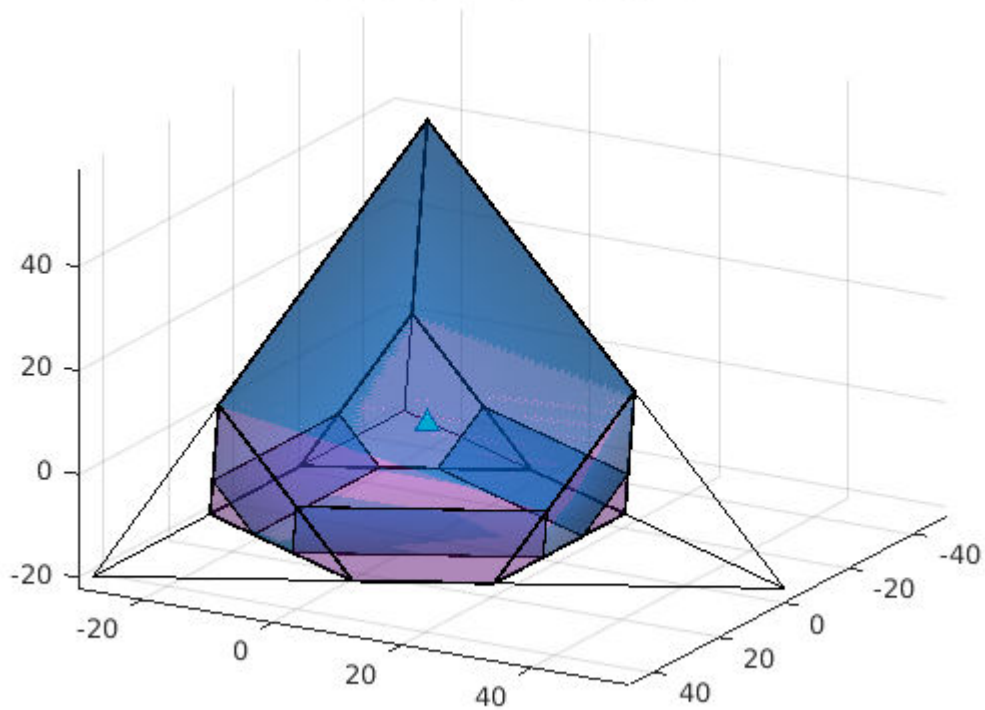
CddCoreCoverSimplexPlot(v, 'prn', 1);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core cover with the core using Cddmex (Projection Simplex), and the pre-nucleolus.

```
pause(5);
```

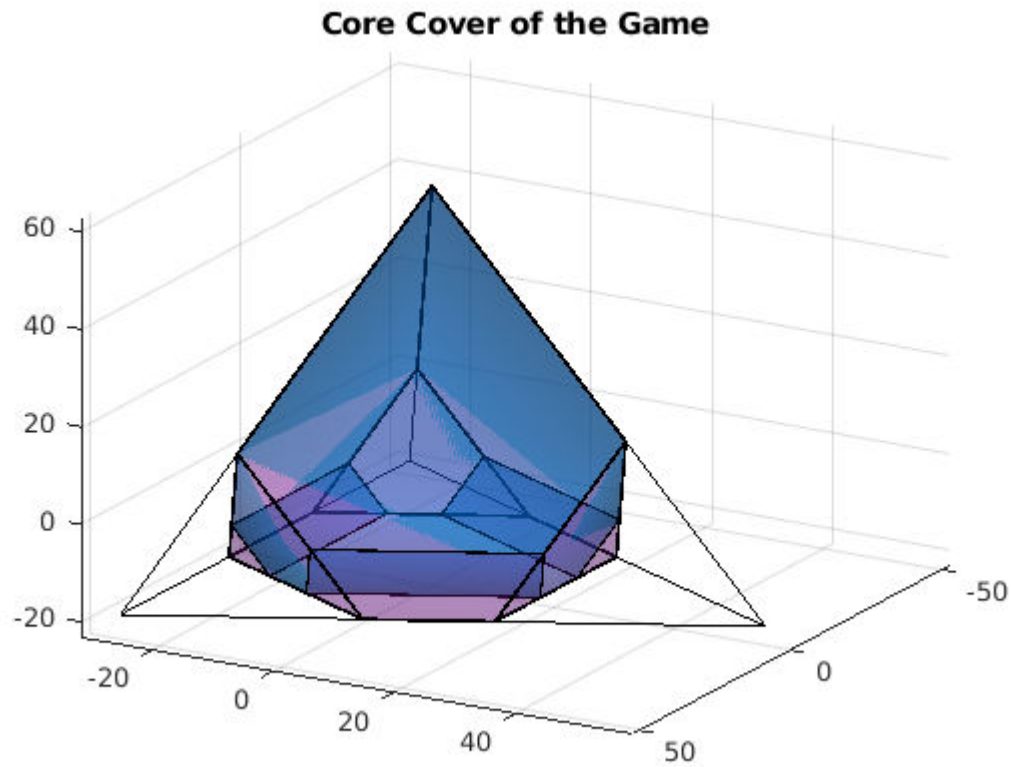

Core Cover of the Game



```
try
    disp('Plotting the core cover with the core using Cddmex (Projection Simplex).');
    CddCoreCoverSimplexPlot(v, 'none', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the core cover with the core using Cddmex (Projection Simplex).

```
pause(5);
```



```

try
    disp('Plotting the anti-core with the anti-imputation set, the Shapley value, anti-pre-nucleolus,
and anti-pre-kernel. ');
    AntiCorePlot(dv, 'all', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end

```

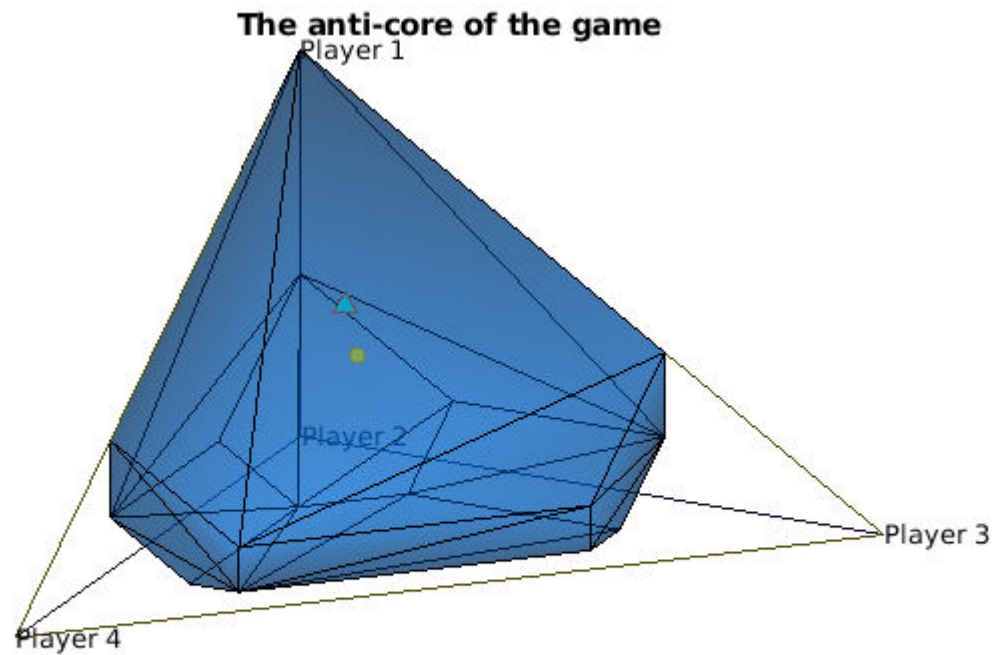
Plotting the anti-core with the anti-imputation set, the Shapley value, anti-pre-nucleolus, and anti-pre-kernel.
size = 16 x 5
Number Type = rational
(Initially added rows) = 1 2 4 16 17

```

(Iter, Row, #Total, #Curr, #Feas)=      6      6      7      6      0
(Iter, Row, #Total, #Curr, #Feas)=      7      5     10      7      0
(Iter, Row, #Total, #Curr, #Feas)=      8      3     13      8      0
(Iter, Row, #Total, #Curr, #Feas)=      9      7     19     10      6
(Iter, Row, #Total, #Curr, #Feas)=     10     15     19      9      6
(Iter, Row, #Total, #Curr, #Feas)=     11     11     21     10      8
(Iter, Row, #Total, #Curr, #Feas)=     12     13     24     12     11
(Iter, Row, #Total, #Curr, #Feas)=     13      9     24     12     11
(Iter, Row, #Total, #Curr, #Feas)=     14     14     29     16     16
size = 6 x 5
Number Type = real
(Initially added rows ) = 2 3 4 6 7
(Iter, Row, #Total, #Curr, #Feas)=      6      5      5      4      1
(Iter, Row, #Total, #Curr, #Feas)=      7      1      8      4      4

```

```
pause(5);
```



```

try
    disp('Plotting the anti-core without the anti-imputation set, the Shapley value, anti-pre-
nucleolus, and anti-pre-kernel. ');
    AntiCorePlot(dv, 'all', 0);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end

```

```

Plotting the anti-core without the anti-imputation set, the Shapley value, anti-pre-nucleolus, and anti-pre-kernel.
size = 16 x 5
Number Type = rational
(Initially added rows ) = 1 2 4 16 17
(Iter, Row, #Total, #Curr, #Feas)=      6      6      7      6      0
(Iter, Row, #Total, #Curr, #Feas)=      7      5     10      7      0
(Iter, Row, #Total, #Curr, #Feas)=      8      3     13      8      0
(Iter, Row, #Total, #Curr, #Feas)=      9      7     19     10      6
(Iter, Row, #Total, #Curr, #Feas)=     10     15     19      9      6
(Iter, Row, #Total, #Curr, #Feas)=     11     11     21     10      8
(Iter, Row, #Total, #Curr, #Feas)=     12     13     24     12     11
(Iter, Row, #Total, #Curr, #Feas)=     13      9     24     12     11
(Iter, Row, #Total, #Curr, #Feas)=     14     14     29     16     16
size = 6 x 5
Number Type = real
(Initially added rows ) = 2 3 4 6 7
(Iter, Row, #Total, #Curr, #Feas)=      6      5      5      4      1
(Iter, Row, #Total, #Curr, #Feas)=      7      1      8      4      4

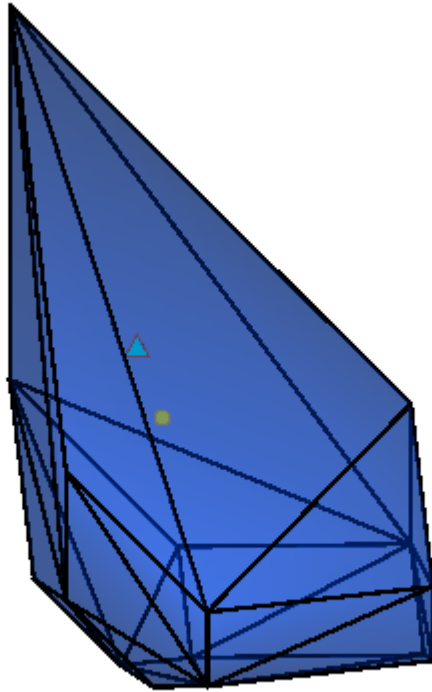
```

```

pause(5);

```

The anti-core of the game



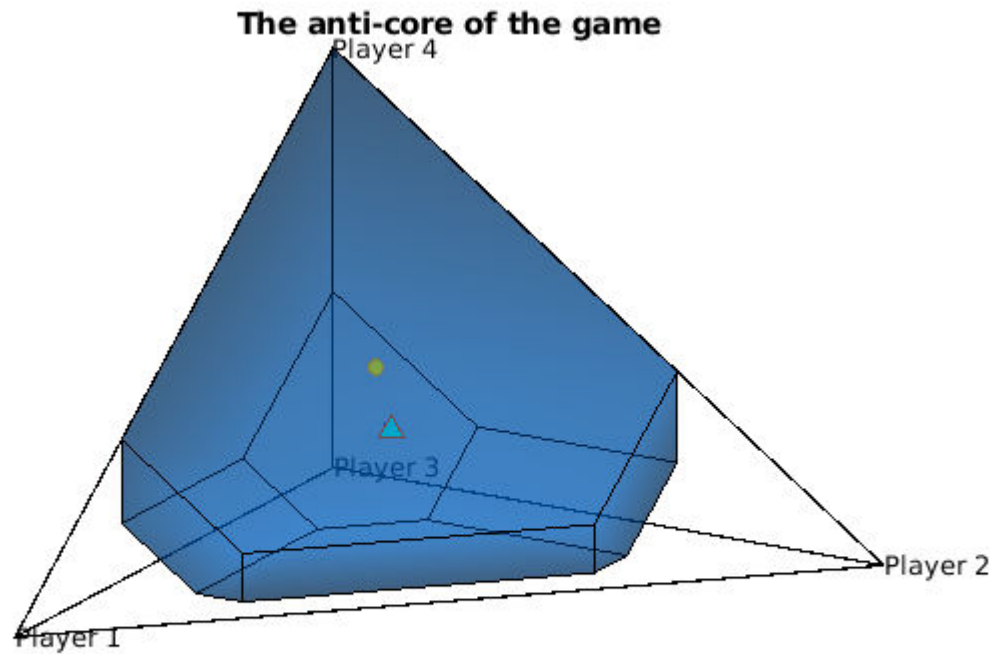
```
try
    disp('Plotting the anti-core with anti-imputation set using Cddmex, the Shapley value, anti-pre-
nucleolus, and anti-pre-kernel.');
```

```
    CddAntiCorePlot(dv,'all',1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

```
    error('MPT3 library is not installed or it is not in the Matlab path!')
end
```

Plotting the anti-core with anti-imputation set using Cddmex, the Shapley value, anti-pre-nucleolus, and anti-pre-kernel.

```
pause(5);
```



```
try
    disp('Plotting the anti-core without anti-imputation set using Cddmex, the Shapley value, anti-pre-
nucleolus, and anti-pre-kernel.');
```

CddAntiCorePlot(dv,'all',0);

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

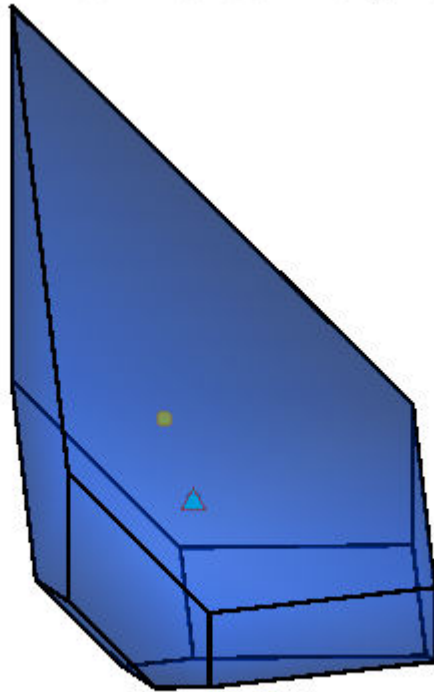
error('MPT3 library is not installed or it is not in the Matlab path!')

```
end
```

Plotting the anti-core without anti-imputation set using Cddmex, the Shapley value, anti-pre-nucleolus, and anti-pre-kernel.

```
pause(5);
```

The anti-core of the game



```
try
    disp('Plotting the anti-core without anti-imputation set, and the Shapley value.');
```

$$\text{AntiCorePlot}(\text{dv}, 'shap', 0);$$

```
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

$$\text{error}('MPT3 \text{ library is not installed or it is not in the Matlab path!}')$$

```
end
```

Plotting the anti-core without anti-imputation set, and the Shapley value.

size = 16 x 5

Number Type = rational

(Initially added rows) = 1 2 4 16 17

(Iter, Row, #Total, #Curr, #Feas)= 6 6 7 6 0

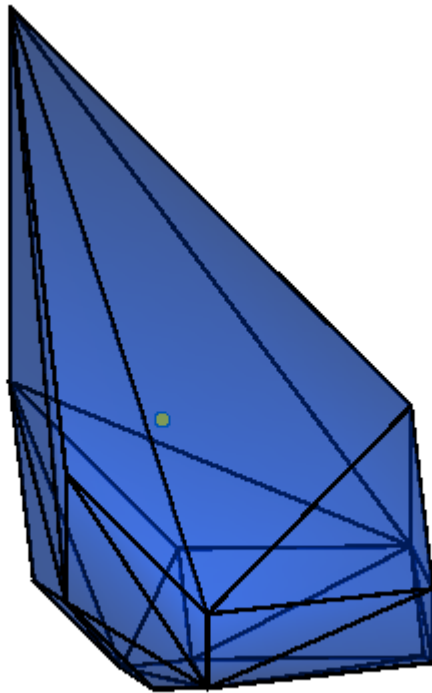
```

(Iter, Row, #Total, #Curr, #Feas)=      7      5      10      7      0
(Iter, Row, #Total, #Curr, #Feas)=      8      3      13      8      0
(Iter, Row, #Total, #Curr, #Feas)=      9      7      19     10      6
(Iter, Row, #Total, #Curr, #Feas)=     10     15      19      9      6
(Iter, Row, #Total, #Curr, #Feas)=     11     11      21     10      8
(Iter, Row, #Total, #Curr, #Feas)=     12     13      24     12     11
(Iter, Row, #Total, #Curr, #Feas)=     13      9      24     12     11
(Iter, Row, #Total, #Curr, #Feas)=     14     14      29     16     16
size = 6 x 5
Number Type = real
(Initially added rows ) = 2 3 4 6 7
(Iter, Row, #Total, #Curr, #Feas)=      6      5      5      4      1
(Iter, Row, #Total, #Curr, #Feas)=      7      1      8      4      4

```

```
pause(5);
```

The anti-core of the game




```

try
    disp('Plotting the anti-core with anti-imputation set using Cddmex, and the Shapley value.');
```

$$CddAntiCorePlot(dv, 'shap', 1);$$

```

catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
```

$$error('MPT3 library is not installed or it is not in the Matlab path!')$$

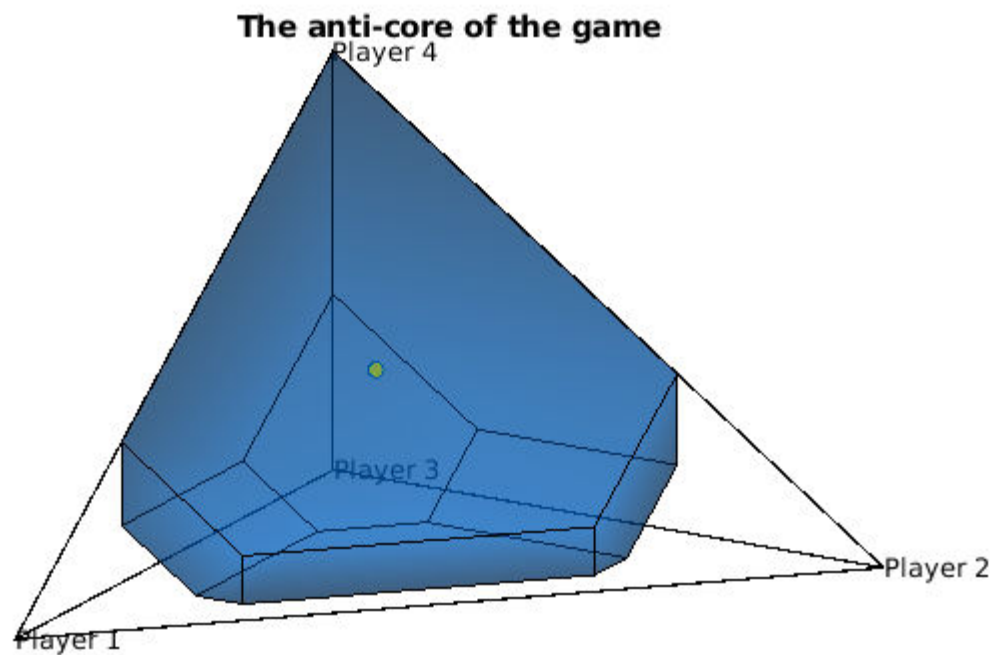
```

end

```

Plotting the anti-core with anti-imputation set using Cddmex, and the Shapley value.

```
pause(5);
```



```
try
```

```

disp('Plotting the anti-core with anti-imputation set using Cddmex, and the anti-pre-kernel.');
```

CddAntiCorePlot(dv, 'apr', 1);

```

catch
disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
error('MPT3 library is not installed or it is not in the Matlab path!')
end

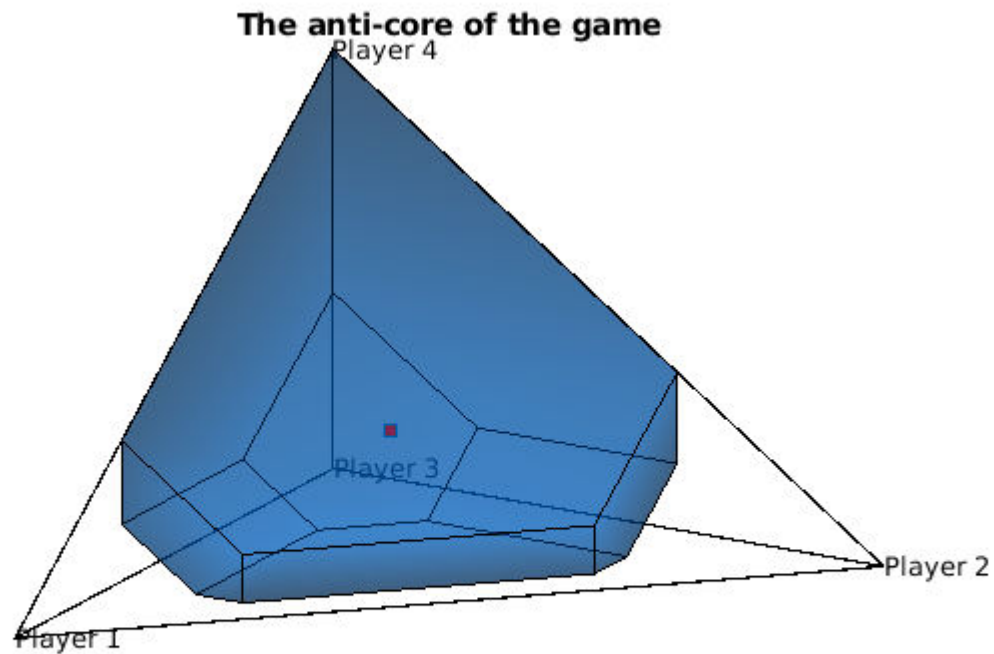
```

Plotting the anti-core with anti-imputation set using Cddmex, and the anti-pre-kernel.

```

pause(5);

```



```

try
disp('Plotting the anti-core with anti-imputation set using Cddmex, and the anti-pre-nucleolus.');
```

```

CddAntiCorePlot(dv, 'aprn', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end

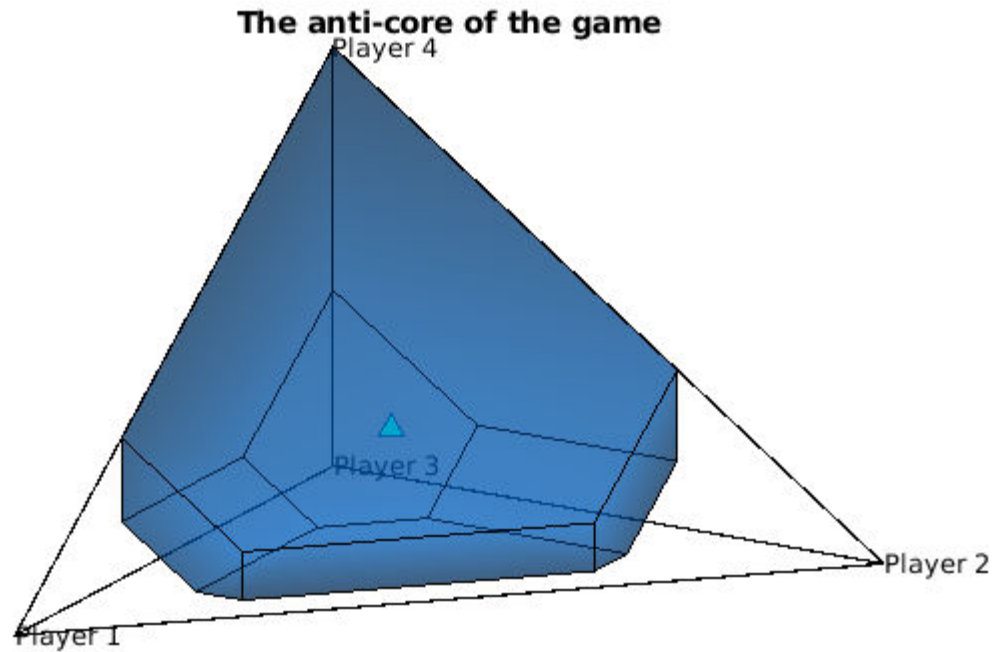
```

Plotting the anti-core with anti-imputation set using Cddmex, and the anti-pre-nucleolus.

```

pause(5);

```



```

try
    disp('Plotting the anti-core with the anti-imputation set using Cddmex (Projection Simplex), the
    Shapley value, anti-pre-nucleolus, and anti-pre-kernel.')

```

```

CddAntiCoreSimplexPlot(dv,'all',1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end

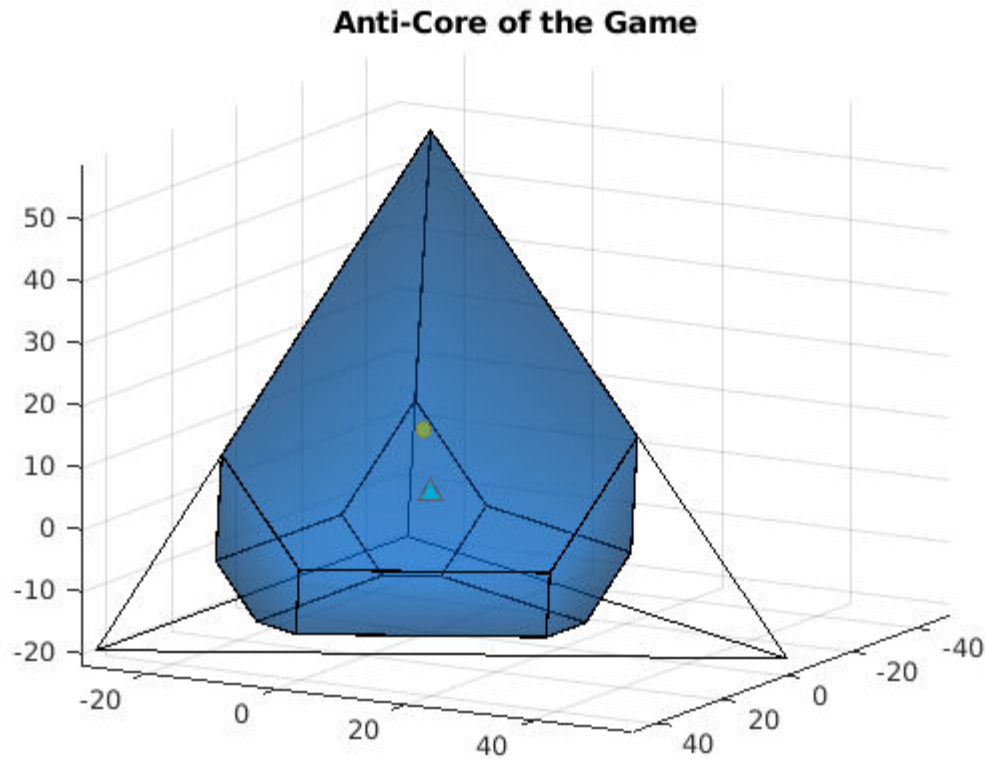
```

Plotting the anti-core with the anti-imputation set using Cddmex (Projection Simplex), the Shapley value, anti-pre-nucleolus, and anti-pre-

```

pause(5);

```



```

try
    disp('Plotting the anti-core without anti-imputation set using Cddmex (Projection Simplex), the
    Shapley value, anti-pre-nucleolus, and anti-pre-kernel.');
```

```

CddAntiCoreSimplexPlot(dv,'all',0);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end

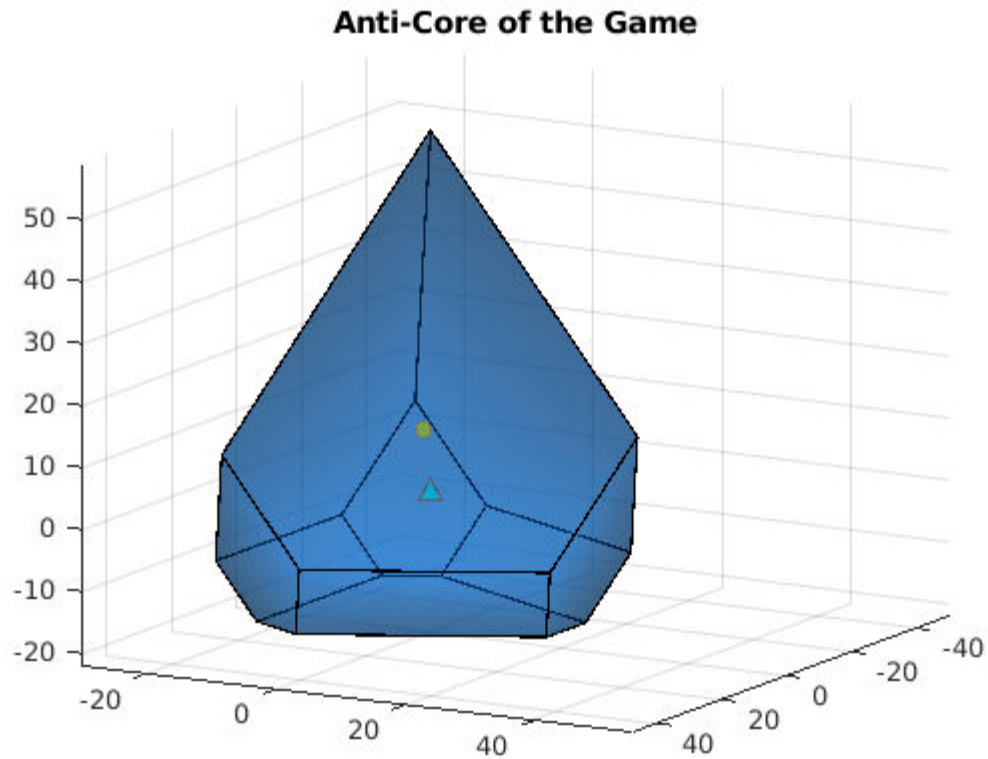
```

Plotting the anti-core without anti-imputation set using Cddmex (Projection Simplex), the Shapley value, anti-pre-nucleolus, and anti-pre-k

```

pause(5);

```



```

try
    disp('Plotting the anti-core with anti-imputation set using Cddmex (Projection Simplex), and the
    Shapley value.');
```

```

CddAntiCoreSimplexPlot(dv, 'shap', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end

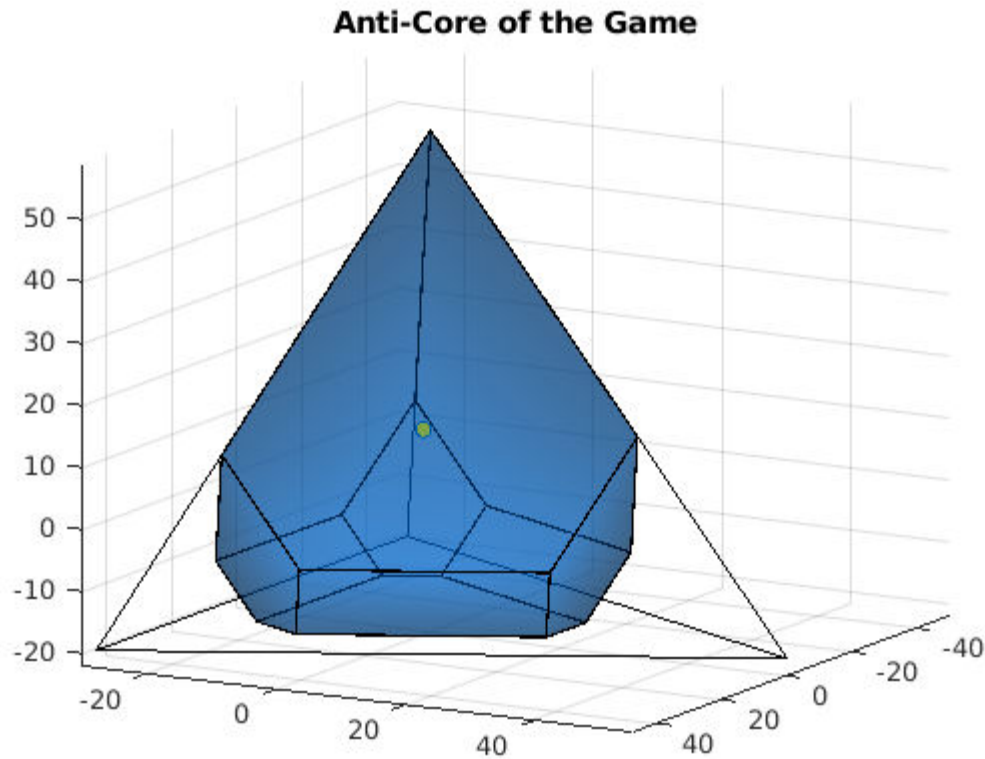
```

Plotting the anti-core with anti-imputation set using Cddmex (Projection Simplex), and the Shapley value.

```

pause(5);

```



```

try
    disp('Plotting the anti-core with anti-imputation set using Cddmex (Projection Simplex), and the
anti-pre-kernel.');
```

```

CddAntiCoreSimplexPlot(dv, 'aprk', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end

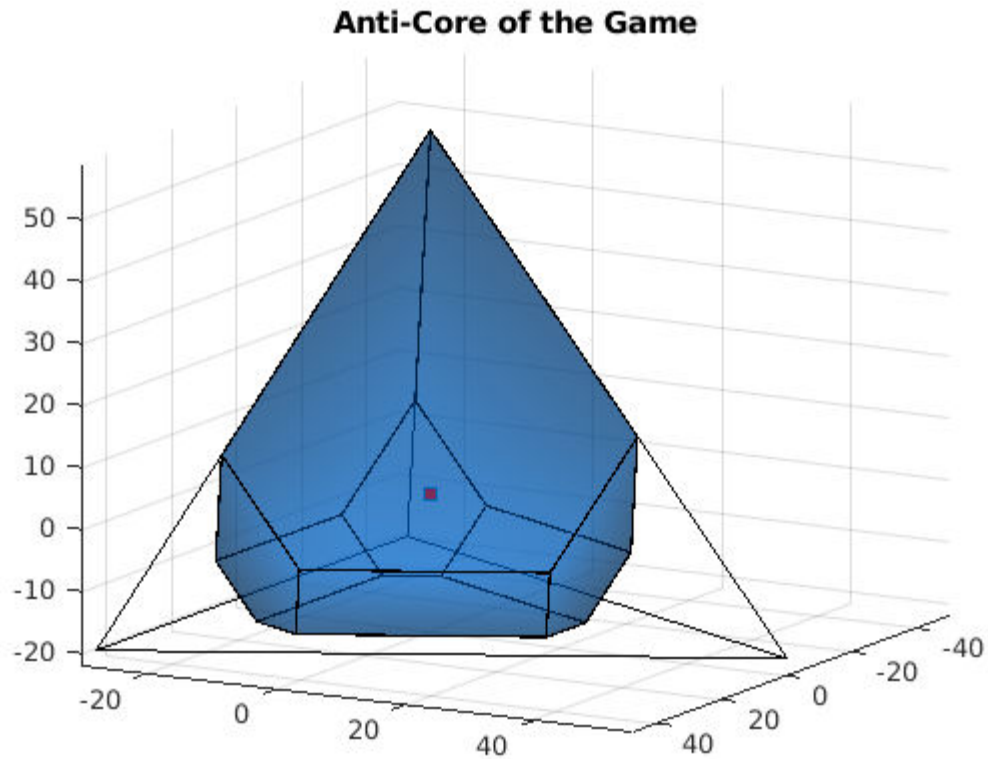
```

Plotting the anti-core with anti-imputation set using Cddmex (Projection Simplex), and the anti-pre-kernel.

```

pause(5);

```



```

try
    disp('Plotting the anti-core with anti-imputation set using Cddmex (Projection Simplex), and the anti-pre-nucleolus.');
```

```

CddAntiCoreSimplexPlot(dv, 'aprn', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end

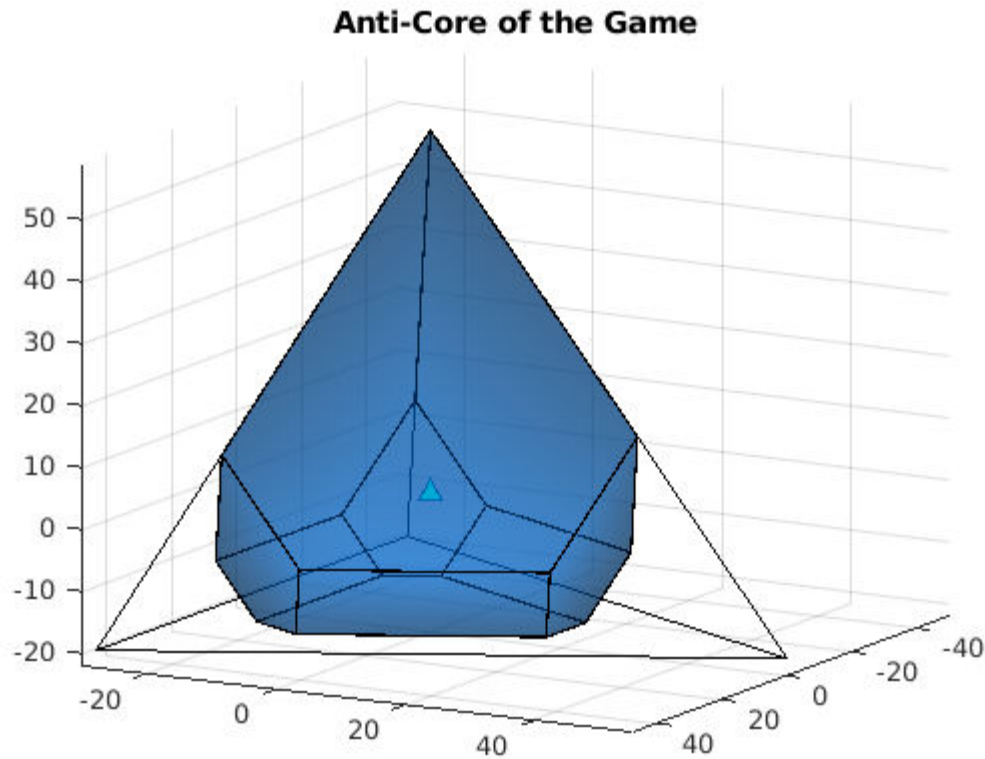
```

Plotting the anti-core with anti-imputation set using Cddmex (Projection Simplex), and the anti-pre-nucleolus.

```

pause(5);

```



```

try
    disp('Plotting Kernel catchers upper and lower set using Cddmex, the pre-kernel/nucleolus the Shapley value.');
```



```

CddKernelCatchers(v,'all',1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end

```

Plotting Kernel catchers upper and lower set using Cddmex, the pre-kernel/nucleolus the Shapley value.

Warning: Volume of the reasonable set is 15

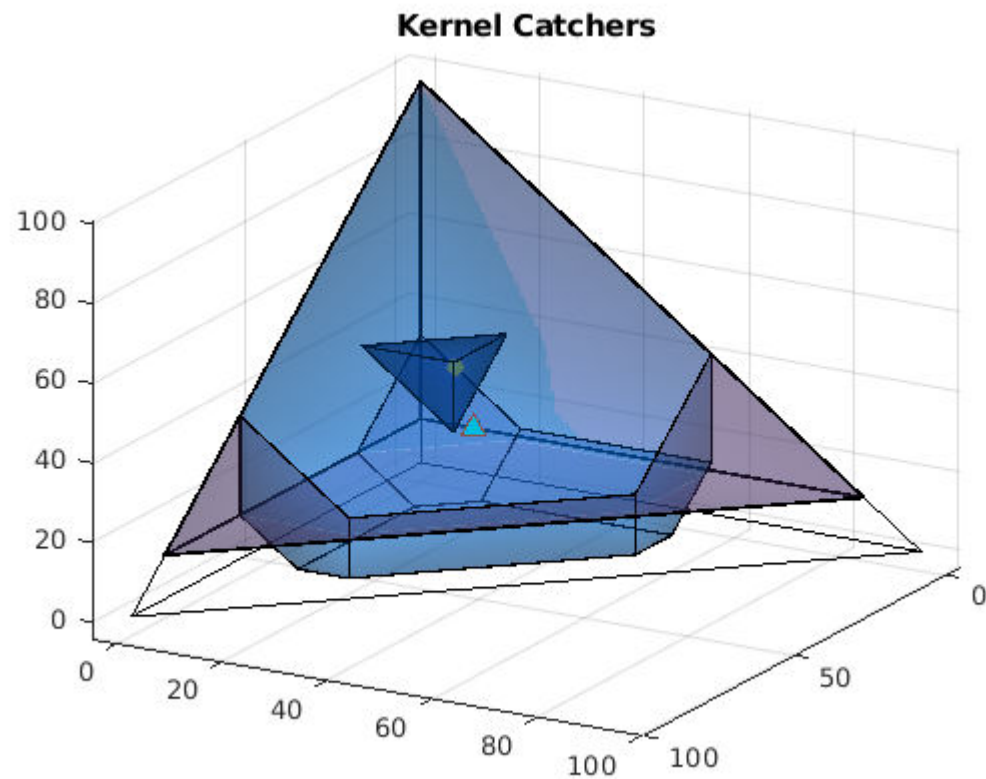
Warning: times larger than the upper set!

Warning: If you want to plot the reasonable set change the crit_val to a value larger than 1057.2426

```

pause(5);

```



try

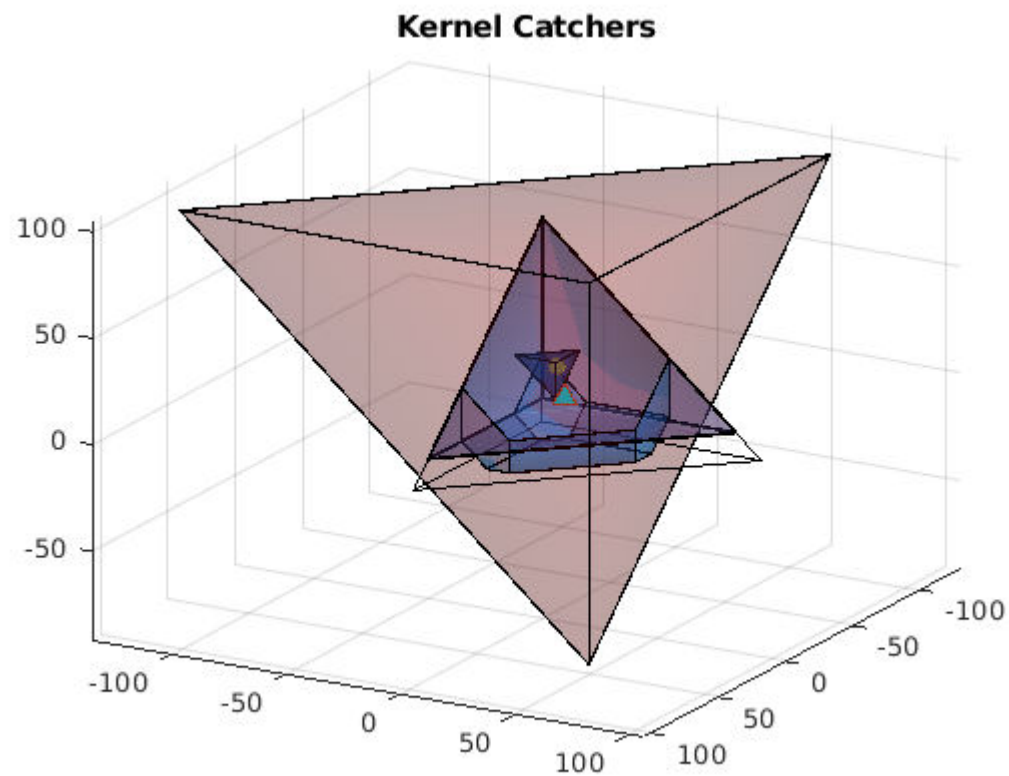
```

disp('Plotting Kernel catchers upper, reasonable and lower set using Cddmex, the pre-kernel/
nucleolus the Shapley value. ');
CddKernelCatchers(v, 'all', '1060', 1);
catch
disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
error('MPT3 library is not installed or it is not in the Matlab path!')
end

```

Plotting Kernel catchers upper, reasonable and lower set using Cddmex, the pre-kernel/nucleolus the Shapley value.

```
pause(5);
```



try

```

disp('Plotting Kernel catchers upper and lower set using Cddmex (Projection Simplex), the pre-
kernel/nucleolus the Shapley value.');
```

```

CddKernelCatchersSimplex(v,'all',1);
catch
disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
error('MPT3 library is not installed or it is not in the Matlab path!')
end

```

Plotting Kernel catchers upper and lower set using Cddmex (Projection Simplex), the pre-kernel/nucleolus the Shapley value.

Warning: Volume of the reasonable set is 15

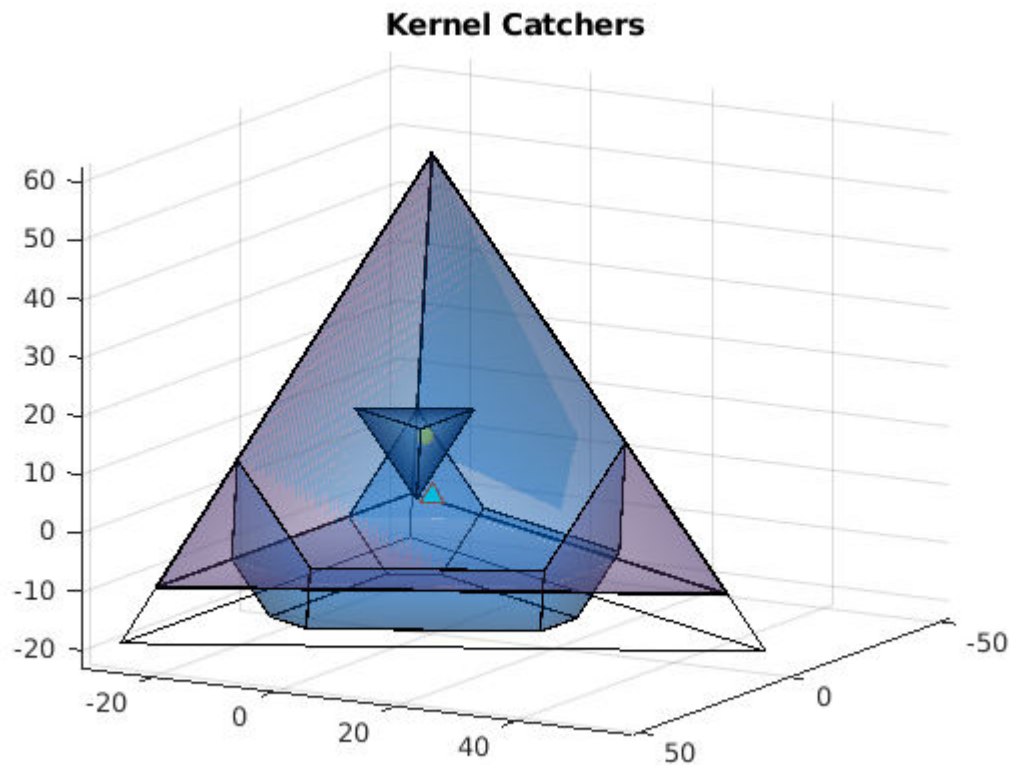
Warning: times larger than the upper set!

Warning: If you want to plot the reasonable set change the crit_val to a value larger than 1057.2426

```

pause(5);

```



```

try
    disp('Plotting Kernel catchers upper, reasonable and lower set using Cddmex (Projection Simplex),
the pre-kernel/nucleolus the Shapley value. ');
    CddKernelCatchersSimplex(v, 'all', '1060', 1);
catch
    disp('http://control.ee.ethz.ch/~mpt/3/Main/Installation');
    error('MPT3 library is not installed or it is not in the Matlab path!')
end

```

Plotting Kernel catchers upper, reasonable and lower set using Cddmex (Projection Simplex), the pre-kernel/nucleolus the Shapley value.

```
pause(5);
```

