Ϋ́Ϋ́Ϋ́ DYNAMO Ϋ́Ϋ́Ϋ́

The Game

Normal form game :
$$\begin{array}{c|cccc}
A & 1 & 0 & 0 \\
B & 0 & 2 & 0 \\
C & 0 & 0 & 3
\end{array}$$

Payoff vector field:
$$F\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} x \\ 2y \\ 3z \end{pmatrix}$$

Nash equilibria:

```
\{\{0, 0, 1\}, \{0, 1., 0\}, \{0, 0.6, 0.4\}, \{0.666667, 0.333333, 0\}, \{0.545455, 0.272727, 0.181818\}, \{0.75, 0, 0.25\}, \{1., 0, 0\}\}
```

The Dynamic

Name of dynamic: Replicator

Law of motion:

$$V_F \left(\begin{array}{c} x \\ y \\ z \end{array} \right) \ = \ \left(\begin{array}{c} -\,x\, \left(-\,x\, +\, x^2\, +\, 2\,\, y^2\, +\, 3\,\, z^2 \right) \\ -\,y\, \left(x^2\, -\, 2\,\, y\, +\, 2\,\, y^2\, +\, 3\,\, z^2 \right) \\ -\,z\, \left(x^2\, +\, 2\,\, y^2\, +\, 3\,\, \left(-\, 1\, +\, z\, \right)\,\, z \right) \end{array} \right)$$

Stable rest points:

$$\{\{0, 0, 1\}, \{0, 1., 0\}, \{1., 0, 0\}\}$$

Unstable rest points:

```
\{\{0,\,0.6,\,0.4\},\,\{0.666667,\,0.333333,\,0\},\,\{0.545455,\,0.272727,\,0.181818\},\,\{0.75,\,0,\,0.25\}\}\}
```

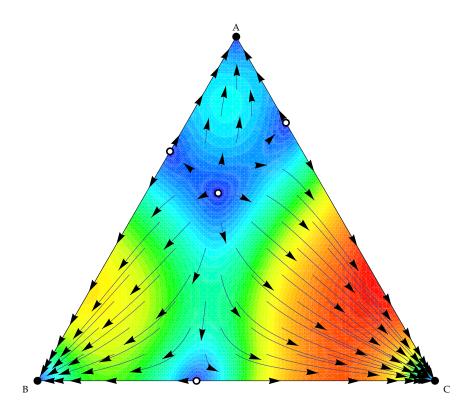
Graphics

Name of Contour Function: Speed

Definition of Contour Function:

Minimum Value = 0.

Maximum Value = 0.535722



Runtime: 00:14