

## STELLAR SCALES of JUPITER

Properties that Musically Resonate with Other Planets within .5 percent.

**1. Self ODR – farthest distance from sun over closest****1.1027683997****2. Solar Day****Mercury** PLANET → **1.661738237501943645`4.879394527830653,****3. Year Length****Venus** PLANET → **1.2051637510544178951`7.698970004336017,** **4. Mass****Mercury** PLANET → **1.4038366734678536888`3.6643247449969305,****5. Angular Momentum****Uranus** PLANET → **1.5,** **Saturn** PLANET → **1.119,** **6. Radius****Saturn** PLANET → **1.204,**

# SOLAR DAY by Jupiter

**4 PLANets with Resonance by Solar Day****Mercury** PLANET → **1.661738237501943645`4.879394527830653,****Earth** PLANET → **1.2089574944149688976`4.999522094492023,****Mars** PLANET → **1.2421932340650051644`4.999914368434747,****Saturn** PLANET → **1.0736227461224532466`4.698940283859885,****Venus** PLANET → **1.1027048687549725411`4.979366545126723**

Neptune is very close to minor 6 th with 1.623

```
In[ ]:= 2^FractionalPart[Log[2, EntityValue["Planet", "SolarDay", "EntityAssociation"]/
Entity["Planet", "Jupiter"]["SolarDay"]]]
```

```
Out[ ]:= { Mercury → 1.6617, Venus → 1.1027, Earth → 1.2090, Mars → 1.2422,
Jupiter → 1.0000, Saturn → 1.0736, Uranus → 1.7368, Neptune → 1.6230 }
```

```
In[ ]:= 2^FractionalPart[
Log[2, Entity["MinorPlanet", "Pluto"]["SolarDay"]/Entity["Planet", "Jupiter"]["SolarDay"]]]
```

```
Out[ ]:= 1.9306
```

```
In[ ]:= 2^FractionalPart[
Log[2, Entity["MinorPlanet", "Eris"]["SolarDay"]/Entity["Planet", "Jupiter"]["SolarDay"]]]
```

```
Out[ ]:= 1.30
```

```
In[ ]:= 2^FractionalPart[
Log[2, Entity["Planet", "Jupiter"]["SolarDay"]/Entity["MinorPlanet", "Ceres"]["SolarDay"]]]
```

```
Out[ ]:= 1.094
```

## MASS by JUPITER

Mercury PLANET → 1.4038366734678536888`3.6643247449969305,

Saturn PLANET → 1.6699521425469759428`3.730969692056988,

Earth PLANET → 1.2415514970698172268`3.531907293713162,

PLUTO → 1.1063

```
In[ ]:= 2^FractionalPart[
Log[2, Entity["Planet", "Jupiter"]["Mass"]/EntityValue["Planet", "Mass", "EntityAssociation"]]]
```

```
Out[ ]:= { Mercury → 1.404, Venus → 1.523, Earth → 1.242, Mars → 1.444,
Jupiter → 1.000, Saturn → 1.670, Uranus → 1.367, Neptune → 1.158 }
```

```
In[ ]:= 2^FractionalPart[
  Log[2, Entity["Planet", "Jupiter"]["Mass"]/Entity["MinorPlanet", "Ceres"]["Mass"]]
```

```
Out[ ]:= 1.91
```

```
In[ ]:= 2^FractionalPart[
  Log[2, Entity["Planet", "Jupiter"]["Mass"]/Entity["MinorPlanet", "Pluto"]["Mass"]]
```

```
Out[ ]:= 1.106
```

```
In[ ]:= 2^FractionalPart[
  Log[2, Entity["Planet", "Jupiter"]["Mass"]/Entity["MinorPlanet", "Eris"]["Mass"]]
```

```
Out[ ]:= 1.73
```

```
In[ ]:= -----
```



## YEAR LENGTH by JUPITER

Venus → 1.2051638,

Earth → 1.4828011,

Saturn → 1.2411891,

Moon 1.2389

Uranus and Pluto are btw 2 and 3 × %

```
In[ ]:= 2^FractionalPart[Log[2, EntityValue["Planet", "OrbitPeriod", "EntityAssociation"]/
  Entity["Planet", "Jupiter"]["OrbitPeriod"]]]
```

```
Out[ ]:= { Mercury → 0.6496961, Venus → 0.8297628, Earth → 0.6743993, Mars → 0.6342101,
  Jupiter → 1.0000000, Saturn → 1.2411891, Uranus → 1.7706224, Neptune → 1.7364565 }
```

```
In[ ]:= 2^FractionalPart[Log[2, Entity["Planet", "Jupiter"]["OrbitPeriod"]/
  EntityValue["Planet", "OrbitPeriod", "EntityAssociation"]]]
```

```
Out[ ]:= { Mercury → 1.539181, Venus → 1.2051638, Earth → 1.4828011, Mars → 1.5767645,
  Jupiter → 1.0000000, Saturn → 0.8056790, Uranus → 0.5647732, Neptune → 0.5758854 }
```

```
In[ ]:= 2^FractionalPart[Log[2,
  Entity["MinorPlanet", "Eris"]["OrbitPeriod"]/Entity["Planet", "Jupiter"]["OrbitPeriod"]]]
```

```
Out[ ]:= 1.4671
```

```
In[ ]:= 2^FractionalPart[Log[2,
    Entity["MinorPlanet", "Pluto"]["OrbitPeriod"]/Entity["Planet", "Jupiter"]["OrbitPeriod"]]]
```

Out[ ]:= 1.3062078

```
In[ ]:= 2^FractionalPart[Log[2,
    Entity["Planet", "Jupiter"]["OrbitPeriod"]/Entity["MinorPlanet", "Ceres"]["OrbitPeriod"]]]
```

Out[ ]:= 1.2893601

```
In[ ]:= 2^FractionalPart[
    Log[2, Entity["Planet", "Jupiter"]["OrbitPeriod"]/ Moon PLANETARY MOON ["OrbitPeriod"]]]
```

Out[ ]:= 1.2389

-----



# Jupiter Ang Mom

Uranus 1.5, Saturn 1.119, Ceres 1.41

Merc 1.36, Earth Eris 1.17 at 3 × %

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```
In[ ]:= MomentOfInertia
```

```
2^FractionalPart[Log[2, Entity["Planet", "Jupiter"]["MomentOfInertia"]/
    EntityValue["Planet", "MomentOfInertia", "EntityAssociation"]]]
```

Out[ ]:= MomentOfInertia

```
Out[ ]:= <| Mercury → 1.7, Venus → 1.2, Earth → 1.79, Mars → 1.67,
    Jupiter → 1.00, Saturn → 1.46, Uranus → 1.47, Neptune → 1.0 |>
```

-----  
 MAKE ANG MOMENTUM LIST

$$\text{angV} = 2/5 * \text{Entity}["\text{Planet}", "\text{Venus}"]["\text{Mass}"] * \text{Entity}["\text{Planet}", "\text{Venus}"]["\text{Radius}"]^2 * \text{Entity}["\text{Planet}", "\text{Venus}"]["\text{SolarDay}"] * 2 * \pi$$

$$\text{Out}[\#]= \text{-----}^{12}$$

$$\text{Out}[\#]= 2.02 \times 10^{34} \text{ kg mi}^2 \text{ days}$$

$$\text{In}[\#]= \text{angM} = 2/5 * \text{Entity}["\text{Planet}", "\text{Mercury}"]["\text{Mass}"] * \text{Entity}["\text{Planet}", "\text{Mercury}"]["\text{Radius}"]^2 * \text{Entity}["\text{Planet}", "\text{Mercury}"]["\text{SolarDay}"] * 2 * \pi$$

$$\text{Out}[\#]= 3.35 \times 10^{32} \text{ kg mi}^2 \text{ days}$$

$$\text{In}[\#]= \text{angE} = 2/5 * \text{Entity}["\text{Planet}", "\text{Earth}"]["\text{Mass}"] * \text{Entity}["\text{Planet}", "\text{Earth}"]["\text{Radius}"]^2 * \text{Entity}["\text{Planet}", "\text{Earth}"]["\text{SolarDay}"] * 2 * \pi$$

$$\text{Out}[\#]= 5.65 \times 10^{33} \text{ kg mi}^2 \text{ h}$$

$$\text{In}[\#]= \text{angMa} = 2/5 * \text{Entity}["\text{Planet}", "\text{Mars}"]["\text{Mass}"] * \text{Entity}["\text{Planet}", "\text{Mars}"]["\text{Radius}"]^2 * \text{Entity}["\text{Planet}", "\text{Mars}"]["\text{SolarDay}"] * 2 * \pi$$

$$\text{Out}[\#]= 1.764 \times 10^{32} \text{ kg mi}^2 \text{ h}$$

$$\text{In}[\#]= \text{angC} = 2/5 * \text{Entity}["\text{MinorPlanet}", "\text{Ceres}"]["\text{Mass}"] * \text{Entity}["\text{MinorPlanet}", "\text{Ceres}"]["\text{Radius}"]^2 * \text{Entity}["\text{MinorPlanet}", "\text{Ceres}"]["\text{SolarDay}"] * 2 * \pi$$

$$\text{Out}[\#]= 1.84 \times 10^{27} \text{ kg mi}^2 \text{ h}$$

$$\text{In}[\#]= \text{angJ} = 2/5 * \text{Entity}["\text{Planet}", "\text{Jupiter}"]["\text{Mass}"] * \text{Entity}["\text{Planet}", "\text{Jupiter}"]["\text{Radius}"]^2 * \text{Entity}["\text{Planet}", "\text{Jupiter}"]["\text{SolarDay}"] * 2 * \pi$$

$$\text{Out}[\#]= 8.94 \times 10^{37} \text{ kg mi}^2 \text{ h}$$

$$\text{In}[\#]= \text{angS} = 2/5 * \text{Entity}["\text{Planet}", "\text{Saturn}"]["\text{Mass}"] * \text{Entity}["\text{Planet}", "\text{Saturn}"]["\text{Radius}"]^2 * \text{Entity}["\text{Planet}", "\text{Saturn}"]["\text{SolarDay}"] * 2 * \pi$$

$$\text{Out}[\#]= 1.998 \times 10^{37} \text{ kg mi}^2 \text{ h}$$

$$\text{In}[\#]= \text{angU} = 2/5 * \text{Entity}["\text{Planet}", "\text{Uranus}"]["\text{Mass}"] * \text{Entity}["\text{Planet}", "\text{Uranus}"]["\text{Radius}"]^2 * \text{Entity}["\text{Planet}", "\text{Uranus}"]["\text{SolarDay}"] * 2 * \pi$$

$$\text{Out}[\#]= 9.34 \times 10^{35} \text{ kg mi}^2 \text{ h}$$

$$\text{In}[\#]= \text{angN} = 2/5 * \text{Entity}["\text{Planet}", "\text{Neptune}"]["\text{Mass}"] * \text{Entity}["\text{Planet}", "\text{Neptune}"]["\text{Radius}"]^2 * \text{Entity}["\text{Planet}", "\text{Neptune}"]["\text{SolarDay}"] * 2 * \pi$$

$$\text{Out}[\#]= 9.7 \times 10^{35} \text{ kg mi}^2 \text{ h}$$

In[#]:= **angP = 2 / 5 \* Entity["MinorPlanet", "Pluto"] ["Mass"] \*  
Entity["MinorPlanet", "Pluto"] ["Radius"] ^2 \* Entity["MinorPlanet", "Pluto"] ["SolarDay"] \* 2 \* π**

Out[#]= 1.149 × 10<sup>29</sup> kg mi<sup>2</sup> days

In[#]:= **angE = 2 / 5 \* Entity["MinorPlanet", "Eris"] ["Mass"] \*  
Entity["MinorPlanet", "Eris"] ["Radius"] ^2 \* Entity["MinorPlanet", "Eris"] ["SolarDay"] \* 2 \* π**

Out[#]= 5.7 × 10<sup>29</sup> kg mi<sup>2</sup> h

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**Venus Ang Mom**

**Neptune 1.00 ! ! ! !**

**Merc 1.88, Mars 1.34, Pluto 1.34**

In[#]:= **2 ^ FractionalPart[Log[2, angV / angMom]]**

Out[#]= {1.88, 1.00, 1.63, 1.34, 1.96, 0.694, 0.776, 0.519, 1.00, 1.34, 1.63}

In[#]:= **2 ^ FractionalPart[Log[2, angMom / angV]]**

Out[#]= {0.53, 1.00, 0.61, 0.745, 0.51, 1.44, 1.29, 1.93, 1.00, 0.746, 0.61}

In[#]:= **angMom = List[angM, angV, angE, angMa, angC, angJ, angS, angU, angN, angP, angE]**

Out[#]= { 3.35 × 10<sup>32</sup> kg mi<sup>2</sup> days , 2.02 × 10<sup>34</sup> kg mi<sup>2</sup> days , 5.7 × 10<sup>29</sup> kg mi<sup>2</sup> h ,  
1.764 × 10<sup>32</sup> kg mi<sup>2</sup> h , 1.84 × 10<sup>27</sup> kg mi<sup>2</sup> h , 8.94 × 10<sup>37</sup> kg mi<sup>2</sup> h , 1.998 × 10<sup>37</sup> kg mi<sup>2</sup> h ,  
9.34 × 10<sup>35</sup> kg mi<sup>2</sup> h , 9.7 × 10<sup>35</sup> kg mi<sup>2</sup> h , 1.149 × 10<sup>29</sup> kg mi<sup>2</sup> days , 5.7 × 10<sup>29</sup> kg mi<sup>2</sup> h }

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**Mercury Angular Momentum**

Out[#]= Angular Mercury Momentum

**Hits**

**Venus 1.88, Neptune 1.88, Saturn 1.21, Uranus 1.81, Ceres 1.04**

**3 × %**

**Jupiter 1.36 , Mars 1.43, Pluto 1.43**

**Earth and Eris have 1.73 ! ! ! !**

**2 ^ FractionalPart[Log[2, angMom / angM]]**

Out[#]= {1.00, 1.88, 0.58, 0.70, 0.96, 1.36, 1.21, 1.81, 1.88, 0.70, 0.58}

In[#]:= **2 ^ FractionalPart[Log[2, angM / angMom]]**

Out[#]= {1.00, 0.53, 1.73, 1.43, 1.04, 0.74, 0.83, 0.55, 0.53, 1.43, 1.73}

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Earth Ang Mom

Eris 1.00!!!!!!

Ceres 1.2, Mars 1.21, Pluto 1.21, Saturn 1.05

$ln[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angMom} / \text{angE}] ]}$

$Out[*]= \{1.73, 1.63, 1.00, 1.21, 0.83, 1.17, 1.05, 1.57, 1.63, 1.21, 1.00\}$

$ln[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angE} / \text{angMom}] ]}$

$Out[*]= \{0.58, 0.61, 1.00, 0.82, 1.20, 0.85, 0.95, 0.64, 0.61, 0.82, 1.00\}$

-----

Mars Ang Mom

Pluto 2.00 !!!!

Earth 1.21, Eris 1.21, Venus 1.34, Neptune 1.34

$ln[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angMa} / \text{angMom}] ]}$

$Out[*]= \{0.70, 0.745, 1.21, 1.000, 1.46, 0.517, 0.579, 0.773, 0.74, 2.000, 1.21\}$

$ln[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angMom} / \text{angMa}] ]}$

$Out[*]= \{1.43, 1.34, 0.82, 1.000, 0.68, 1.934, 1.728, 1.293, 1.34, 0.500, 0.82\}$

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Ceres Ang Mom

Earth n Eris 1.2, Jupiter 1.41, Saturn 1.26, Uranus 1.89, Mercury 1.04

$ln[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angC} / \text{angMom}] ]}$

$Out[*]= \{0.96, 0.51, 0.83, 0.68, 1.00, 0.71, 0.79, 0.53, 0.51, 0.68, 0.83\}$

$ln[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angMom} / \text{angC}] ]}$

$Out[*]= \{1.04, 1.96, 1.20, 1.46, 1.00, 1.41, 1.26, 1.89, 1.96, 1.46, 1.20\}$

-----

Jupiter Ang Mom

Uranus 1.5, Saturn 1.119, Ceres 1.41



Merc 1.36 , Earth Eris 1.17 at 3%

$$In[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angJ} / \text{angMom}] ]}$$

Out[\*]= {1.36, 1.44, 1.17, 1.934, 1.41, 1.000, 1.119, 1.50, 1.44, 1.934, 1.17}

-----

Saturn Ang Mom

Jupiter 1.119, Merc 1.21, Earth n Eris 1.05, Ceres 1.26, Uranus 1.34

$$In[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angS} / \text{angMom}] ]}$$

Out[\*]= {1.21, 1.29, 1.05, 1.728, 1.26, 0.893, 1.000, 1.34, 1.29, 1.727, 1.05}

$$In[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angMom} / \text{angS}] ]}$$

Out[\*]= {0.83, 0.776, 0.95, 0.579, 0.79, 1.119, 1.000, 0.748, 0.78, 0.579, 0.95}

-----

Uranus ang Mom

Jupuiter 1.50, Merc 1.81, Ceres 1.89, Saturn 1.34, Neptune 1.04

$$In[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angU} / \text{angMom}] ]}$$

Out[\*]= {1.81, 1.93, 1.57, 1.293, 1.89, 0.668, 0.748, 1.00, 0.96, 1.293, 1.57}

$$In[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angMom} / \text{angU}] ]}$$

Out[\*]= {0.55, 0.519, 0.64, 0.773, 0.53, 1.50, 1.34, 1.00, 1.04, 0.774, 0.64}

-----

**Neptune Ang Momentum**

**Venus 1.00 ! ! ! !**

**Mercury 1.88, Mars n Pluto 1.34, Uranus 1.04**

$$2^{\text{FractionalPart}[\text{Log}[2, \text{angN} / \text{angMom}] ]}$$

Out[\*]= Ang Momentum Neptune

Out[\*]= {1.88, 1.00, 1.63, 1.34, 1.96, 0.69, 0.78, 1.04, 1.00, 1.34, 1.63}

$$In[*]:= 2^{\text{FractionalPart}[\text{Log}[2, \text{angMom} / \text{angN}] ]}$$

Out[\*]= {0.53, 1.00, 0.61, 0.74, 0.51, 1.44, 1.29, 0.96, 1.00, 0.74, 0.61}

-----

**Pluto Ang Momentum**

**Mars 2.00 ! ! !**

**Earth n Eris 1.21, Venus n Neptune 1.34**

```
In[*]:= 2^FractionalPart[Log[2, angP / angMom]]
Out[*]:= {0.70, 0.746, 1.21, 0.500, 1.46, 0.517, 0.579, 0.774, 0.74, 1.000, 1.21}

In[*]:= 2^FractionalPart[Log[2, angMom / angP]]
Out[*]:= {1.43, 1.34, 0.82, 2.000, 0.68, 1.934, 1.727, 1.293, 1.34, 1.000, 0.82}
```

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### Eris Ang Momentum

**Earth 1.000 !**  
**Ceres 1.20**  
**Mars n Pluto 1.21, Saturn 1.05**

```
In[*]:= 2^FractionalPart[Log[2, angMom / angE]]
Out[*]:= {1.73, 1.63, 1.00, 1.21, 0.83, 1.17, 1.05, 1.57, 1.63, 1.21, 1.00}

In[*]:= 2^FractionalPart[Log[2, angE / angMom]]
Out[*]:= {0.58, 0.61, 1.00, 0.82, 1.20, 0.85, 0.95, 0.64, 0.61, 0.82, 1.00}
```

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# Radius by Jupiter

**Saturn 1.204,**

Mercury 1.24, Ceres 1.61, Uranus 1.048 , Mars 1.785

almost Pluto 1.271 a little over 2x% though it rounds down

```
In[*]:= 2^FractionalPart[Log[2,
  Entity["Planet", "Venus"]["Radius"]/EntityValue["Planet", "Radius", "EntityAssociation"]]]
```

```
Out[*]:= { Mercury → 1.24, Venus → 1.000, Earth → 0.950, Mars → 1.785,
  Jupiter → 0.692, Saturn → 0.830, Uranus → 0.954, Neptune → 0.98 }
```

```
In[*]:= 2^FractionalPart[Log[2,
  EntityValue["Planet", "Radius", "EntityAssociation"]/Entity["Planet", "Venus"]["Radius"]]]
```

```
Out[*]:= { Mercury → 0.806, Venus → 1.000, Earth → 1.053, Mars → 0.560,
  Jupiter → 1.445, Saturn → 1.204, Uranus → 1.048, Neptune → 1.02 }
```

```
In[*]:= 2^FractionalPart[
  Log[2, Entity["Planet", "Venus"]["Radius"]/Entity["MinorPlanet", "Pluto"]["Radius"]]]
```

```
Out[*]:= 1.271
```

```
In[*]:= 2^FractionalPart[  
    Log[2, Entity["Planet", "Venus"]["Radius"]/Entity["MinorPlanet", "Eris"]["Radius"]]
```

```
Out[*]= 1.301
```

```
In[*]:= 2^FractionalPart[  
    Log[2, Entity["Planet", "Venus"]["Radius"]/Entity["MinorPlanet", "Ceres"]["Radius"]]
```

```
Out[*]= 1.61
```