

Qiangyin

The Qiangyin (Ehlen for Silver Jewelry) system is located within the Arm 06 of [Kagami Galaxy](#). It is the home system of the [Ehlen](#) and the seat of Ehlen governance.

Star Data

Below are the general characteristics for the star at the center of the Qiangyin system:

Physical Characteristics

- Name: Qiangyin
- Type: G0
- Mass: 2.18735×10^{30} kg
- Average Temp: 6000 K
- Luminosity: 7.3279404×10^{26} W
- Radius: 891,317.76 km
- Age: 5.7 billion years old

Celestial mechanics

- 🌌 [Roche Limit](#): 0.11 AU
- Outer System Limit: 44.0 AU
- Snow Line: 5.09 AU

Planetary Data

There are 11 planets in this system. Below is their statistical information.

Planetary Overview		
Order	Name	Type
1	Qiangyin I	Rock Terrestrial
2	Qiangyin II	Asteroid Belt
3	Qiangyin III	Greenhouse
4	Ehl	Garden Terrestrial
5	Qiangyin V	Rock
6	Qiangyin VI	Gas Giant
7	Qiangyin VII	Gas Giant
8	Qiangyin VIII	Gas Giant

Planetary Overview		
Order	Name	Type
9	Qiangyin IX	Gas Giant
10	Qiangyin X	Gas Giant
11	Qiangyin XI	Hadean Terrestrial

Qiangyin I

Qiangyin I, it is a tiny rocky terrestrial planet tidally locked to Qiangyin. Save for some ruins of alien design, there isn't anything interesting about the planet.

- Type: Rock, Terrestrial
- Orbital Radius: 43.5 million km (0.29 AU)
- Perihelion/Aphelion: (.26 AU/.32 AU)
- Eccentricity: 0.1
- Orbital Period: 54.64 days
- Natural Satellites: None

Physical Characteristics

- Mass: 1.0750266×10^{24} kg
- Density: 4.411 g/cm3
- Diameter: 7772.62 km
- Surface Gravity: 0.48 g
- Rotational Period: 54.68 days
- Axial Tilt: 35°
- Atmospheric Pressure: 0 atm
- Atmospheric Composition: None
- Average Surface Temp: 587.97 K / 314.82°C
- Hydro Coverage: 0%
- Volcanics: Light
- Tectonic Activity: None

Socioeconomic Data

- Planetary Population: None
- Facilities: None

Diyu Belt

The Diyu (Ehl for inferno or to punish severely) Belt is a resource-rich asteroid belt the Ehlen historically sent prisoners too for hard labor. The Kuvexians have since taken over operations with Ehlen oversight.

- Type: Asteroid Belt

- Orbital Radius: million km (0.52 AU)
- Perihelion/Aphelion: (0.42 AU/ 0.63 AU)
- Eccentricity: 0.2
- Orbital Period: 131.95 days

Socioeconomic Data

- Planetary Population: 500,000
- Facilities: Asteroid Mining

Qiangyin III

Qiangyin III is a small rocky planet that possesses a trace atmosphere. The planet is largely used by the Ehlen for war games and weapon testing.

- Type: Rock, Terrestrial
- Orbital Radius: 43.5 million km (0.89 AU)
- Perihelion/Aphelion: (.76 AU/ 1.02 AU)
- Eccentricity: 0.15
- Orbital Period: 292.46 days
- Natural Satellites: 1 Moonlet

Physical Characteristics

- Mass: 8.95855×10^{23} kg
- Density: 3.301 g/cm³
- Diameter: 8,027.46 km
- Surface Gravity: 0.38 g
- Rotational Period: 5 days (retrograde)
- Axial Tilt: 48°
- Atmospheric Pressure: 0 atm
- Atmospheric Composition: Trace
- Average Surface Temp: 332.65 K / 59.5°C
- Hydro Coverage: 0%
- Volcanics: Light
- Tectonic Activity: None

Socioeconomic Data

- Planetary Population: 75,000
- Facilities: None

Ehl

The homeworld of the Ehlen, **Ehl** is a chilly planet that is dominated by temperate forests and grasslands. The planet is unique as its atmosphere has marginal amounts of chlorine in the atmosphere due to microbes using photosynthesis to break down excess salt.

- Type: Rock, Terrestrial
- Orbital Radius: 43.5 million km (1.39 AU)
- Perihelion/Aphelion: (1.25 AU/1.53 AU)
- Eccentricity: 0.1
- Orbital Period: 570.9 days
- Natural Satellites: 2 Moonlets

Physical Characteristics

- Mass: 2.487×10^{12} kg
- Density: 6.0654 g/cm³
- Diameter: 13,124.26 km
- Surface Gravity: 1.13 g
- Rotational Period: 19 hours retrograde (opposite of earth)
- Axial Tilt: 14°
- Atmospheric Pressure: 1.02 atm
- Atmospheric Composition: Nitrogen, Oxygen, Argon, trace amounts of Chlorine.
- Average Surface Temp: 280 K / 6.85°C
- Hydro Coverage: 60%
- Volcanics: Moderate
- Tectonic Activity: Moderate

Socioeconomic Data

- Planetary Population: 4.5 billion

Qiangyin V

A small and cold rocky planet, Qiangyin V possesses a thin atmosphere of mostly carbon dioxide.

- Type: Rock, Terrestrial
- Orbital Radius: 43.5 million km (2.73 AU)
- Perihelion/Aphelion: (2.59 AU/ 2.86 AU)
- Eccentricity: 0.05
- Orbital Period: 1565.5 days
- Natural Satellites: 2 Moonlets

Physical Characteristics

- Mass: 4.180659×10^{23} kg
- Density: 3.86 g/cm³
- Diameter: 4,204.86 km
- Surface Gravity: 0.33 g
- Rotational Period: 1.17 days
- Axial Tilt: 24°
- Atmospheric Pressure: 0 atm
- Atmospheric Composition: Trace
- Average Surface Temp: 190.17 K / -82.98°C
- Hydro Coverage: 10% (ice)
- Volcanics: Light
- Tectonic Activity: None

Socioeconomic Data

- Planetary Population: None
- Facilities: None

Qiangyin VI

An eccentric Gas Giant, Qiangyin VI holds special status with Ehlen culture. Passing into the inner system, the planet shines brightly in the Ehl sky every 4.5 local years. Each of its moons and moonlets is named after a mythic retainer.

- Type: Gas Giant
- Orbital Radius: 43.5 million km (3.82 AU)
- Perihelion/Aphelion: (0.76 AU/ 6.87 AU)
- Eccentricity: 0.8
- Orbital Period: 2593.26 days
- Natural Satellites: 1 Moon, 9 Moonlets

Physical Characteristics

- Mass: 3.583422×10^{27} kg
- Density: 1.71 g/cm³
- Diameter: 158,765 km
- Cloudtop Gravity: 3.86 g
- Rotational Period: 54.68 days
- Axial Tilt: 35°
- Blackbody Temp: 167.42 K

Socioeconomic Data

- Planetary Population: None
- Facilities: None

Qiangyin VII

A large Gas Giant, Qiangyin VII is the first of “Guardians” or conventional Gas Giants ancient Ehlen believed to be deities.

- Type: Rock, Terrestrial
- Orbital Radius: 43.5 million km (6.1 AU)
- Perihelion/Aphelion: (5.8 AU/ 6.41 AU)
- Eccentricity: 0.05
- Orbital Period: 5248.38 days
- Natural Satellites: 4 Moons, 11 Moonlets

Physical Characteristics

- Mass: 2.388948×10^{28} kg
- Density: 8.822 g/cm³
- Diameter: 172,908.94
- Cloudtop Gravity: 21.72 g
- Rotational Period: 54.68 days
- Axial Tilt: 35°
- Blackbody Temp: 132.35 K

Socioeconomic Data

- Planetary Population: None
- Facilities: None

Qiangyin VIII

Qiangyin VIII is the 2nd of the Guardians. It is said within Ehlen mythology this planet was a trickster of the Ehlen Pantheon.

* Type: Rock, Terrestrial

- Orbital Radius: 43.5 million km (9.77 AU)
- Perihelion/Aphelion: (6.84 AU/ 12.7 AU)
- Eccentricity: 0.3
- Orbital Period: 10621.98 days

- Natural Satellites: 5 Moons, 13 Moonlets

Physical Characteristics

- Mass: 8.958555×10^{26} kg
- Density: 1.048 g/cm³
- Diameter: 117,736.08 km
- Cloudtop Gravity: 1.76 g
- Rotational Period: 54.68 days
- Axial Tilt: 35°
- Blackbody Temp: 104.63 K

Socioeconomic Data

- Planetary Population: None
- Facilities: None

Qiangyin IX

3rd of the Guardians.

- Type: Rock, Terrestrial
- Orbital Radius: 43.5 million km (15.63 AU)
- Perihelion/Aphelion: (9.38 AU/ 21.88 AU)
- Eccentricity: 0.4
- Orbital Period: 21497.38 days
- Natural Satellites: 2 Moons, 13 Moonlets

Physical Characteristics

- Mass: 8.958555×10^{26} kg
- Density: 1.048 g/cm³
- Diameter: 117,736.08 km
- Cloudtop Gravity: 1.76 g
- Rotational Period: 54.68 days
- Axial Tilt: 35°
- Blackbody Temp: 82.72 K

Socioeconomic Data

- Planetary Population: None
- Facilities: None

Qiangyin X

Fourth of the Guardians. Ancient Ehlen believed it was responsible for disasters when not appeased.

- Type: Rock, Terrestrial
- Orbital Radius: 43.5 million km (23.44 AU)
- Perihelion/Aphelion: (19.92 AU/ 26.96 AU)
- Eccentricity: 0.15
- Orbital Period: 39493.2 days
- Natural Satellites: 3 Moons, 12 Moonlets

Physical Characteristics

- Mass: 8.958555×10^{24} kg
- Density: 1.434 g/cm³
- Diameter: 49,184.12 km
- Cloudtop Gravity: 1.0 g
- Rotational Period: 54.68 days
- Axial Tilt: 35°
- Blackbody Temp: 67.54 K

Socioeconomic Data

- Planetary Population: None
- Facilities: None

Qiangyin XI

Last planet of the the Qiangyin system, Qiangyin XI's nitrogen atmosphere is frozen to on the surface due to the coldness of deep space.

- Type: Rock, Terrestrial
- Orbital Radius: 43.5 million km (37.5 AU)
- Perihelion/Aphelion: (31.88 AU/ 43.13 AU)
- Eccentricity: 0.15
- Orbital Period: 79928.62 days
- Natural Satellites: None

Physical Characteristics

- Mass: 5.97237×10^{22} kg
- Density: 2.757 g/cm³
- Diameter: 3,695.18 km

- Surface Gravity: 0.14 g
- Rotational Period: 1.04 days
- Axial Tilt: 16°
- Atmospheric Pressure: 0 atm
- Atmospheric Composition: None
- Average Surface Temp: 35.78 K / -237.37°C
- Hydro Coverage: 0%
- Volcanics: Light
- Tectonic Activity: None

Socioeconomic Data

- Planetary Population: None
- Facilities: None

OOO Notes

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