Code samples: https://gist.github.com/AnnaGerber/e5f897b745e5f96da463

Rover Build instructions: https://t.co/x3J8ml0ddU

 Program your bot to drive around an area autonomously, using the ultrasonic sensor to avoid obstacles

- nft-asonic sensor
- Beep when an obstacle is detected using the
 - Use buttons to toggle what is displayed
- Display the light reading on the digit display
- Here are some ideas for programming your bot:

 Display the temperature on the digit display

Your challenge is to build a ModeRover to explore the asteroid Cybele 65.

Welcome to International NodeBots day 2015!

a A-type asteroid, meaning that it is dark in color and carbonaceous in composition. Examination of the asteroid's infrared spectrum shows an absorption feature that is similar to the spectrum of 24 Themis. This can be

dust mixed with small amounts of water-ice and

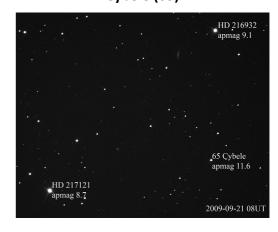
asteroid may be covered in a layer of fine silicate

explained by the presence of water ice. The

organic solids.

65 Cybele is one of the largest asteroids in the Solar System and is located in the outer asteroid belt. It gives its name to the Cybele family of asteroids that orbit outward from the Sun from the 2:1 orbital resonance with Jupiter. Cybele is a X-type asteroid, meaning that it is dark in color

Cybele (65)



302×290×232 km 273.0+11.9 km 237.3 km <u>IRAS^[1]</u> 1.78×10¹⁹ kg^[3] 0.99±0.20 g/cm^{3[3]} Mean density 0.0663 m/s² 0.1255 km/s 4.041 h^[1] Rotation period $\begin{array}{l} 0.050\,\pm\,0.005^{[2]} \\ 0.071^{[1]} \end{array}$ Xc/P[1] Spectral type Apparent magnitude 10.67 to 13.64 Absolute magnitude (H) 6.62[1]

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