Hamiltonian mechanics and astrophysical scaling

GRE Subject Test · GRE Physics · Vocabulary in context

Word	Example
luminosity /ˌluːmɪˈnɒsɪti/	Distance changes observed brightness without changing the star's **luminosity**.
Hamiltonian /ˌhæmɪlˈtəʊnɪən/	Hamilton's equations come from the **Hamiltonian**.
canonical momentum /kəˈnɒnɪkl məʊˈmentəm/	Find **canonical momentum** by differentiating the Lagrangian with respect to generalised velocity.
Kepler's third law /ˈkepləz θɜːd lɔː/	**Kepler's third law** says T^2 is proportional to r^3. $T^2 \quad r^3$
blackbody /ˈblækbɒdi/	A **blackbody** absorbs all light that falls on it.
flux /flʌks/	A star's **flux** at Earth falls with the square of its distance.
parallax /ˈpærəlæks/	Nearby stars show a larger **parallax** than distant ones.

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