Identify whether the following particles are leptons, baryons or mesons: μ, Λ, η°, π°, p, π+, νe, τ, Σ+, n.

Solution

Baryons are composite particles made of three quarks, as opposed to mesons, which are composite particles made of one quark and one antiquark
(https://en.wikipedia.org/wiki/List_of_baryons):

$$\Lambda, p, \Sigma^+, n.$$

Mesons are unstable subatomic particles composed of one quark and one antiquark
https://en.wikipedia.org/wiki/List_of_mesons

$$\eta^0, \pi^0, \pi^+.$$

A lepton is an elementary, half-integer spin (spin 1⁄2) particle that does not undergo strong interactions (https://en.wikipedia.org/wiki/Lepton)

$$\mu, \nu_e, \tau.$$

Answers: Baryons: $\Lambda, p, \Sigma^+, n.$

Mesons: $\eta^0, \pi^0, \pi^+.$

Leptons $\mu, \nu_e, \tau.$