

Charles' Personal Outline

Post by “Hiram” of September 4, 2019 at 1:54 PM

[Quote from Charles Edwins](#)

The universe is ever expanding, but will one day collapse on itself when all matter is exhausted.

Can you explain what you mean by this one?

Matter can not be "exhausted" because it can't be turned into nothing, only into energy / other matter--nothing comes from nothing.

For that reason, cosmological theories of this sort are still very speculative. I think one of the theories I've read is that black holes may swallow all matter eventually, but if this happens, then the matter will still be there (just gravity won't let it escape), or black holes may eject the matter into other universes following whatever laws of nature we have yet to discover regarding black holes. But we know that matter swallowed by black holes does not disappear because otherwise, they would not have the gravity to keep in all the light in them (and we already have photographic evidence of this, as of a few months ago).