Cosmological principle (GR version)

There exists an inertial reference frame, from which the universe appears to be spatially homogeneous and isotropic at sufficiently large scales.

Cosmological principle (GR version)

There exists an inertial reference[1] frame, from which the universe appears to be spatially homogeneous and isotropic at sufficiently large scales.

[1] a.k.a. ”free-falling”

Cosmological principle (GR version)

There exists an inertial reference[1] frame[2], from which the universe appears to be spatially homogeneous and isotropic at sufficiently large scales.

[1] a.k.a. ”free-falling”

[2] “fundamental frame”

Cosmological principle (GR version)

There exists an inertial reference[1] frame[2], from which the universe[3] appears to be spatially homogeneous and isotropic at sufficiently large scales.

[1] a.k.a. ”free-falling”

[2] “fundamental frame”

[3] ρ and $\underline{v}$ and k

Cosmological principle (GR version)

There exists an inertial reference[1] frame[2], from which the universe[3] appears[4] to be spatially homogeneous and isotropic at sufficiently large scales.

[1] a.k.a. ”free-falling”

[2] “fundamental frame”

[3] ρ and $\underline{v}$ and k

[4] for “fundamental observers”

Cosmological principle (GR version)

There exists an inertial reference[1] frame[2], from which the universe[3] appears[4] to be spatially homogeneous[5] and isotropic[6] at sufficiently large scales.

[1] a.k.a. ”free-falling”

[2] “fundamental frame”

[3] ρ and $\underline{v}$ and k

[4] for “fundamental observers”

[5] invariant to switching between different fundamental frames

[6] invariant to rotations

Cosmological principle (GR version)

There exists an inertial reference[1] frame[2], from which the universe[3] appears[4] to be spatially homogeneous[5] and isotropic[6] at sufficiently large scales[7].

[1] a.k.a. ”free-falling”

[2] “fundamental frame”

[3] ρ and $\underline{v}$ and k

[4] for “fundamental observers”

[5] invariant to switching between different fundamental frames

[6] invariant to rotations

[7] “cosmological scale”