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Quasinormal modes of unparticle black holes

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In the background of unparticle-enhanced black hole geometry, we provide the quasinormal modes of scalar, vector, and
Dirac particles around it.
Ungravity by tensor unparticles contributes positively to the Newtonian gravity and black holes can be formed at the LHC
without any extra dimensions.
In the ungravity-dominant regime, the gravity looks much like that of the Schwarzschild geometry in fractional number of extra dimensions.
We argue in this analysis that quasinormal modes are good fingerprints to distinguish ungravity from extra dimensions,
by showing that the unitarity constraints on ungravity forbid some of the quasinormal modes which are allowed in extra dimensions.

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