

Papers by Robert Ehrlich providing evidence that a neutrino flavor state is a tachyon:

R. Ehrlich, "Is There a 4.5 PeV Neutron Line in the Cosmic Ray Spectrum?," *Physical Review D*, **60**, 73005 (1999)

R. Ehrlich, "Neutrino Mass Inferred from the Cosmic Ray Spectrum and Tritium Beta Decay, *Phys. Lett. B*, **493** (2000) 229-232

R. Ehrlich, "Faster-than-light speeds, tachyons, and the possibility of tachyonic neutrinos," *Am. J. Phys.*, 71 (11) 1109-14 (2003)

R. Ehrlich, "Search for cosmic ray sources of neutral hadrons yielding a peak just above the knee, and possible evidence for a \$5.86\$ PeV enhancement," <http://arxiv.org/abs/1307.3944>

R. Ehrlich, "Six observations consistent with the electron neutrino being a tachyon with mass: $m^2 = -0.11 \pm 0.02 \text{ eV}^2$," *Astropart. Phys.* 66, 11 (2015), <http://arxiv.org/pdf/1408.2804v9.pdf>

Papers providing evidence that a neutrino mass state is a tachyon:

R. Ehrlich, "Evidence for two neutrino mass eigenstates from SN 1987A and the possibility of superluminal neutrinos," *Astroparticle Physics* 35 (2012), pp. 625-628 <http://arxiv.org/abs/1111.0502>

R. Ehrlich "Tachyonic neutrinos and the neutrino masses," *Astropart. Phys.*, 41 (2013) 1–6, <http://arxiv.org/pdf/1204.0484.pdf>

M. H. Chan, and R. Ehrlich, "Sterile neutrino fits to dark matter mass profiles in the Milky Way and in galaxy clusters," *Astrophysics and Space Science*, **349**, (1), 407- 413, (2014), <http://arxiv.org/abs/1301.6640>

R. Ehrlich "Could a reported 2007 analysis of Super-Kamiokande data have missed a detectable supernova signal from Andromeda?," *ISRN High Energy Physics*, vol. 2014, Article ID 408508, 4 pages, 2014. doi:10.1155/2014/408508. Also: <http://arxiv.org/abs/1301.3390>

R. Ehrlich, Evidence for the neutrino masses in a $3+3$ model and its unique KATRIN signature, *Astropart. Phys.*, 85, 43-49 (2016; <https://arxiv.org/abs/1602.09043>

R. Ehrlich, The Mont Blanc neutrinos from SN 1987A: Could they have been monochromatic (8 MeV) tachyons with $m^2 = -0.38 \text{ keV}^2$? Accepted by *Astropart. Phys.* Jan. 2018. <http://arXiv:1701.00488>

Other tachyon papers:

Jentschura, U. and Ehrlich, R., Lepton-pair Cerenkov radiation emitted by tachyonic neutrinos: Lorentz-covariant approach and Ice Cube data, *Advances in High Energy Physics*, vol. 2016, Article ID 4764981; <http://arxiv.org/abs/1607.00640>

Jentschura, U., Ehrlich, R., and Nandori, I, Calculation of the Decay Rate of Tachyonic Neutrinos against Charged-Lepton-Pair and Neutrino-Pair Cerenkov Radiation" J. of Phys. G, 44 (10) 2017