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Collapsing quantum relativistic electron gas. A model for some jets?

Thursday 14 May 2015 10:00 (30 minutes)

For critical and supercritical magnetic fields electrons and even photons behave as one dimensional particles, leading to vanishing transverse pressures. The outcome suggests a collapsing behavior orthogonal to the magnetic field, leading to long objects. We conjecture they may have a connection with jets in astrophysics.

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