

Pseudodyons from dark topological defects

We discuss a dark photon model with the successive symmetry breaking $SU(2)_D \rightarrow U(1)_D \rightarrow \mathbb{Z}_2$ in the dark sector. Various dark topological defects appear, such as monopoles, dyons, strings and beads. They are shown to induce QED electromagnetic fields through kinetic and magnetic mixing between $U(1)_{QED}$ and $U(1)_D$. In particular, dark beads appear from a distance to be particles with magnetic and electric charge, which we call pseudodyons.

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Abstract for a poster

all program topics can be contemplated

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