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Local parity violation in the dense hadronic medium

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We discuss the possibility that bubbles of a parity breaking hadronic medium may emerge in the central heavy ion collisions. After reviewing the methods to describe the mesons on a background with chiral imbalance such as effective field theories and holographic techniques, we discuss the influence of the boundaries on the vector meson propagation. We argue for the existence of the currents localized in the vicinity of the transition region between regions with different axial chemical potential values.

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