

Distorted extra space contribution into dark matter density

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It is known that distorted extra space with point-like defect can take place in our Universe. In the space of 4-dimensions this defect will appear as a non-zero energy density, which can interact as classical field with fermions of Standard Model. Because of the mass and the size we will refer to these kind of extra-space defect as the dark matter “particle”, though it is not a particle in common sense. But if distributed across the Universe these objects obviously will contribute to the dark matter density.

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