

Millicharged particles. A review

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Cosmological effects of hypothetical millicharged particles and experimental bounds on their existence are considered. Such particles may make a fraction or 100% contribution to dark matter in the universe. If they are light, they could be warm dark matter and alleviate problems of cold dark matter cosmology. These particles can also solve the long-standing problem of large-scale cosmic magnetic fields. Their existence can be proved or disproved by direct experiments with somewhat improved sensitivity.

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