

The «Dark Disk» model in the light of DAMPE experiment

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Abstract

There are a lot of models considering the Dark Matter (DM) to be the origin of cosmic ray (CR) positron excess. However, they face an obstacle in the form of gamma-rays. Simple DM models tend to overproduce gamma-rays, leading to contradiction with isotropic gamma-ray background (IGRB). The «dark disk» model has been proposed to alleviate this contradiction. This work considers results of DAMPE experiment in the framework of the disk model.