

A SIMPLE APPROACH OF GRAVITATIONAL LENSING FOR RAR MODEL

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Several year ago Ruffini, Argueles and Rueda (2015) proposed a dark matter model to substitute supermassive black holes in AGNs. Later, these models started to call RAR models of dark matter distributions. Moreover, it was declared that the RAR-model provides a better fits for bright star trajectories near the Galactic Center. We consider a simple approach for gravitational lensing in the framework of RAR-model. When gravitational lens consists of a ball with a constant density (this case corresponds to a central part of core in the RAR-model). We discuss cases when RAR-model could mimic shadows formed by supermassive black hole.