

Title: "Looking for mirror star candidates in GAIA data."

Mirror Stars are a possible dark matter candidate that is made up of complex dark matter with its own versions of electromagnetism and nuclear physics (<https://arxiv.org/abs/1909.04071>). These exotic objects could capture regular matter in their cores, which would be heated by weak interactions with the mirror star core and show up in telescope surveys as white-dwarf-like objects that are much too faint to be at their hot temperature. Order 50 mirror star candidates have been identified in the GAIA data within 100pc. This project consists of following up on these candidates one-by-one in an attempt to exclude the obviously spurious ones and identify a small subset of the most promising candidates for dedicated telescope observation