**Study of dark matter physics using fixed target experiments.**

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Abstract:

Fixed target experiments are excellent tools for searching for signals of weak interacting dark matter in the sub-GeV mass region. The concept of dark portals between hidden and ordinary matter, as described by the Standard Model, typically involves light sub-GeV intermediate states. In particular, the dark photon portal will be considered and discussed within the framework of existing and future experiments, such as NA64 at the SPS at CERN.