

Dark matter heating of gas clouds hundreds of parsecs from the Milky Way Galactic center provides us a powerful new test of dark matter interactions. To illustrate, the leading bound on nucleon scattering for 10-100 MeV mass dark matter can be derived using this method. Furthermore, millicharged dark matter models, including those proposed to match the recent EDGES 21 cm absorption anomaly can be constrained from gas cloud's cooling rate. For Galactic center gas clouds, galactic fields' magnetic deflection of electromagnetically charged dark matter is mitigated, because the magnetic fields around the Galactic center are poloidal, as opposed to being aligned parallel to the Milky Way disk.