Schulz 7-1 (n U 1); = q R2 would indicate that particles can locally be created or destroyed based on curvature of spacetime For a comoving volume of the fluid, the quantity (h U"); a nould noteuse continuously as the fluid more from flat space time to carred, meaning particles are destroyed, But it doesn't seem like spacetime will gre that back as the fluid passes from curred spacetime to flat, because R2 is always positive. So as the fluid goes across the a region of curred Spacetime, some particles are destroyed for good. It is possible to experimentally test this eq., one would observe a cloud of stars as they move through a much larger star, and specie if the total mass is reduced once the doub of stars come out the other side.

> Davidson Chen 5-10.2024