

Annihilating $-H$ Dark Matter: Spiral Galaxies Black Holes. Doubling $-Z$ Dark Matter: Spiral Galaxies “Bars”

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Abstract: We have associated central spiral galaxies as galactic locations where $-H$ dark matter annihilates and $-Z$ dark matter doubles, producing a net energy change of $H-Z$ plus $-H-Z$. This is normal annihilating action and produces 2 gamma rays of 34 GEV each. We identify the central black hole with annihilation and the bar with double $-Z$ production.

The theory of cyclic universe $E8$ symmetry uses $-H$ and $-Z$ bosons to shield ordinary matter to allow it to be transferred from the old universe to the new. The generation of the negative-energy bosons must be done before the end of the last epoch but they can be used after the start of the next epoch. After use they can be used by nature again or discarded. $-Z$ bosons are used again, as “fertilizer” for star production. This use is evidenced by the star streams spiraling out from both ends of the spiral galaxy “bar”. The $-H$ bosons are not used as fertilizer, probably because they are scalar bosons not useful in stars, and so they are discarded, as evidenced by the large central black hole. This black hole can be used as “garbage pail” right up to the time of collapse of the universe and annihilating/doubling can function also to that time.