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Axionic Dark Matter in AGNs: Born again Dark Energy

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AGN jets carry helical magnetic fields, which can affect dark matter if the latter is axionic. This preliminary study shows that the nature of the axionic condensate may change such that it violates the strong energy condition and becomes localised Dark Energy. The presence of such Dark Energy may affect galaxy formation and galactic dynamics, so this possibility should not be ignored when considering axionic dark matter.

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