

Abstract Submitted
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Quark Nugget Dark Matter KYLE LAWSON, University of British Columbia — While it is frequently assumed that the Dark Matter consists of a new fundamental particle an alternative possibility is that it represent a new phase of well know standard model particles. In this context I will discuss a model in which the dark matter consists of heavy “nuggets” of standard model quarks and antiquarks bound in a colour superconducting phase. After a brief review of the properties of these objects I will highlight a range of possible observational consequences and establish the current limits, and future detection prospects, for dark matter of this type.

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